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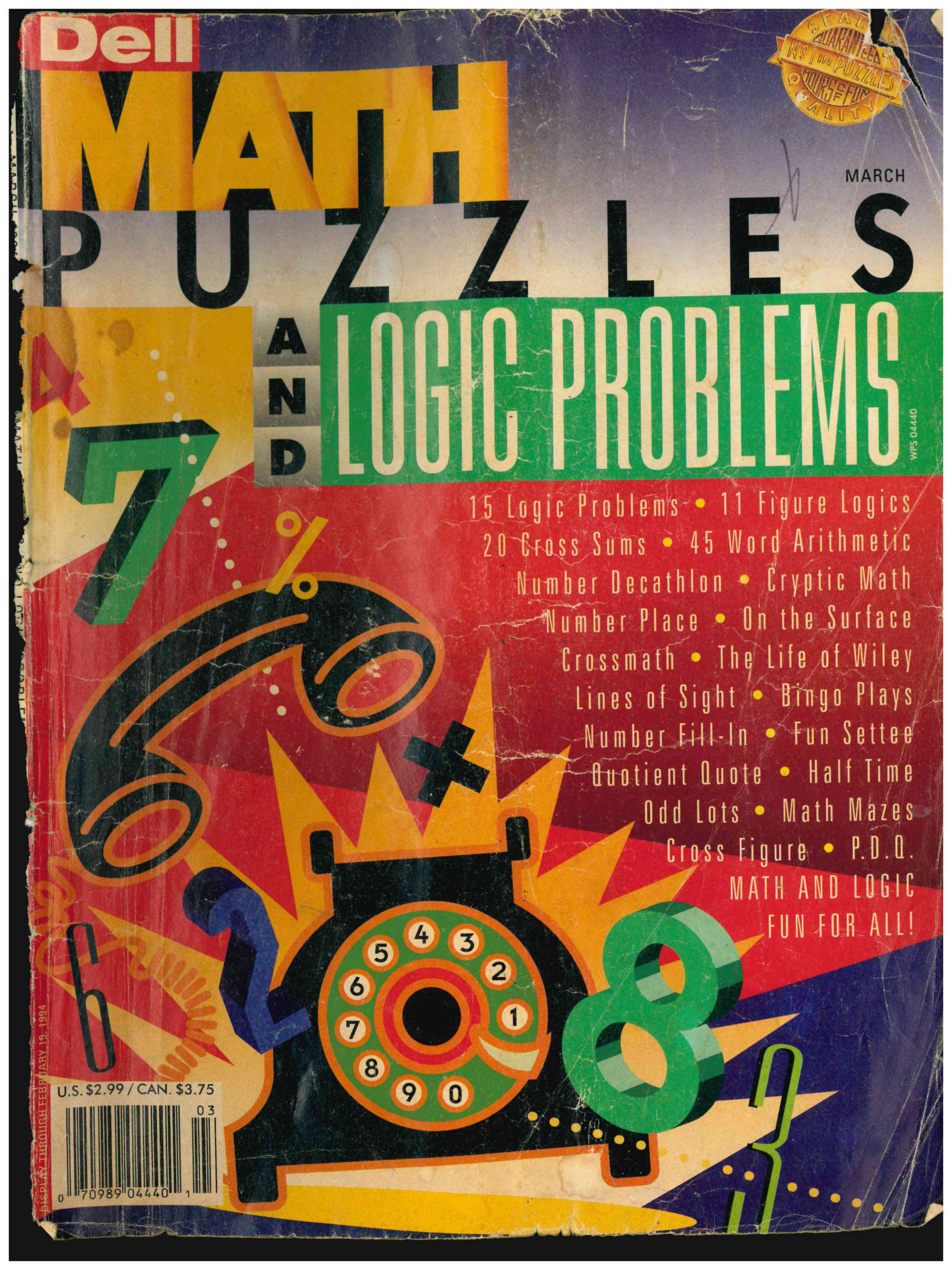

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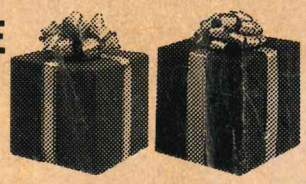

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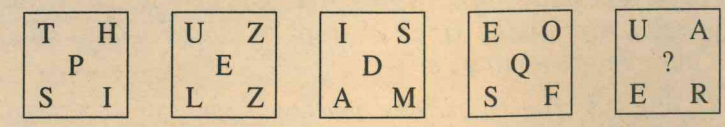

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LETTER FROM THE EDITORS

Happy New Year, solvers! We hope it's a prosperous and exciting one for all. But even though the holiday season has pretty much ended, there are still a few leftover good tidings in store for you. And when you come right down to it, what better way is there to start off a new year than with welcome news? Let's get right to the good stuff:

1. While scouring the Table of Contents in search of your favorite puzzle, perhaps you noticed this little symbol on the same page:

What this symbol means is that all Dell magazines — text pages and covers — are now printed using soy-based ink; and we are proud and pleased to be able to display it. We believe this is a positive step toward safeguarding our environment, one that as the publishers of some 72 million magazines per year we have a responsibility to take.

As much as we might wish that every one of those 72 million magazines was bought and treasured forever, the truth is the overwhelming majority of them end up in landfills. Most printing inks are petroleum-based; and in a landfill petroleum could gradually seep into the earth and from there into the water supply. Soy-based ink replaces some of this petroleum with a substance that is biodegradable, thus reducing its impact on our water (we hope in time to have an ink containing no petroleum at all). The use of this ink also reduces the volume of potentially hazardous, smog-producing compounds released into the environment during the printing process and the de-inking process (the first step in recycling).

Soy ink is also good for the U.S. economy, as it lessens our dependence on imported petroleum and replaces it with increased demand for American-grown, readily replenishable soybeans. And while this ink is somewhat more expensive and harder for the printers to work with (it is harder to dry, for example), we have been able to convert without increasing production costs; so magazine prices will not have to go up as a result of this move.

Special mention must go to Dell Magazines' Production Manager Marilyn Roberts who worked tirelessly to make this happen. We're delighted to be able to make a choice that is both safe for the environment and beneficial for the economy, so we just had to share this first piece of good news with you.

2. In case you didn't know, you can receive this magazine by subscription now! Just turn to page 62 to find out how to arrange for a year's worth of *Dell Math Puzzles and Logic Problems* to arrive in your mailbox. You'll be glad you did!

3. Here's the best news of all: 15 Logic Problems, 11 Figure Logics, 45 Word Arithmetic, 20 Cross Sums, 3 Math Mazes, 4 On the Surface, 3 Number Place, Number Decathlon, Bingo Plays, Crossmath, Cross Figure, Cryptic Math, Number Fill-In, and many more fun puzzles are sitting right in front of you! So start solving, because the next issue will be here before you know it!

Hmm...it looks like it's true what they say about good news arriving in threes! But your letters about *Dell Math Puzzles and Logic Problems*, we hope, will arrive in three *thousands*. Mail or fax your comments (whether they be complimentary or critical) to:

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The May *Dell Math Puzzles and Logic Problems* will go on sale February 15.

The Editors

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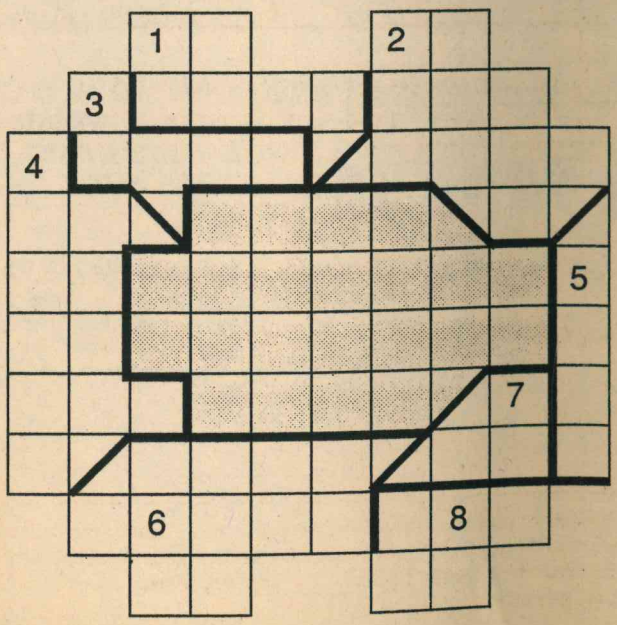
QUOTIENT QUOTE

First, calculate the quotient (answer) to each division problem below. Next, write the given letter on the dash whose number equals the problem's quotient. For example, in the first problem, 50 ÷ 2 equals 25, so we have transferred the H to dash 25. When completed correctly, the letters on the numbered dashes will spell out a fitting quote by 19th century German astronomer Karl Friedrich Gauss. FUN TWIST: Try solving in order — complete all of the problems in the first column, then the second, etc. If you can guess the quote by the end of the second column, you've done a great job of dividing and conquering!

Answer is on page 59.

50 ÷ 2 = 25 (H)	2534 ÷ 362 = 7 (A)	20 ÷ 1 = 20 (E)	68 ÷ 4 = 17 (Q)
100 ÷ 20 = 5 (E)	900 ÷ 60 = 15 (H)	264 ÷ 22 = 12 (I)	432 ÷ 18 = 24 (T)
57 ÷ 3 = 19 (E)	588 ÷ 21 = 28 (C)	396 ÷ 36 = 11 (S)	138 ÷ 23 = 6 (M)
396 ÷ 198 = 2 (A)	561 ÷ 17 = 33 (E)	945 ÷ 35 = 27 (S)	182 ÷ 7 = 26 (E)
84 ÷ 4 = 21 (N)	6900 ÷ 230 = 30 (E)	801 ÷ 89 = 9 (I)	1670 ÷ 167 = 10 (C)
330 ÷ 15 = 22 (O)	32 ÷ 2 = 16 (E)	156 ÷ 12 = 13 (S)	764 ÷ 764 = 1 (M)
192 ÷ 6 = 32 (C)	867 ÷ 289 = 3 (T)	493 ÷ 17 = 29 (I)	102 ÷ 3 = 34 (S)
1000 ÷ 125 = 8 (T)	253 ÷ 11 = 23 (F)	54 ÷ 3 = 18 (U)	
224 ÷ 16 = 14 (T)	2418 ÷ 78 = 31 (N)	696 ÷ 174 = 4 (H)	

M	A	T	H	E	M	A	T	I	C	S		I	S		T	H	E																	
1	2	3	4	5	6	7	8	9	10	11		12	13		14	15	16																	
Q	U	E	E	N		O	F		T	H	E		S	C	I	E	N	C	E	S														
17	18	19	20	21		22	23		24	25	26		27	28	29	30	31	32	33	34														



HALF TIME

The diagram on the left has been broken up into nine areas separated by heavy lines. Which numbered areas would have to be pencilled in so that the diagram will be half white and half gray? Any two half-squares can be counted as one square.

Answer is on page 59.

LOGIC PROBLEM

1. TO THE NTH DEGREE

by FRAN HENDON

Nice Nebraska native Nina Nunnally owns and operates the Noble Nail Nook, a new manicure shop near noisy, neon-lit Northtown. By Sunday night, neither neighborly novelist Nancy Nevins, narrow-minded neurologist Nellie Naylor, neat nanny Nora Nylund, nor nearsighted network-newsperson Nanette Nunez neglects to note her need for nail-nursing, so, naturally, the four narcissistic nymphs navigate over to the shop on Monday. (Each has a different regular appointment on an hour from nine to noon during that day.) Since natty Nina never stops nonchalantly nudging a number of nourishing nuts towards her customers, each noshes nervously throughout her manicure; each is notorious for nibbling on a different nut, and for using nothing but one name-brand of nail polish. Now, before we become nauseating nuisances with our nonsensical narration of Ns, from the clues below, can you determine each customer's appointment hour, favorite nut (one is walnuts), and preferred nail polish?

1. The customer who comes at noon snacks on peanuts.
2. Nancy arrives just before the woman who uses Red Light, and just after the one who prefers almonds.
3. The four customers are the first, the one who eats filberts, Nancy, and the one with Rose Merry nails.
4. Nanette says "No, no" to Mauve Madness.
5. Nora admires the Pink Pussycat nails of the customer right before her.

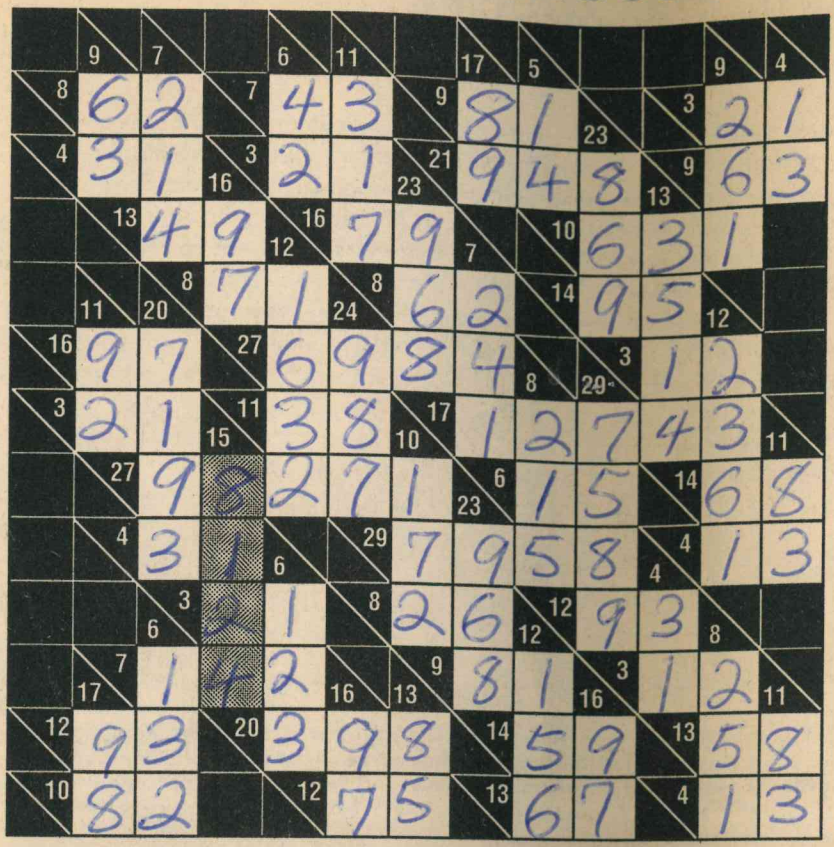
Solution is on page 60.

If you care to use the chart below in solving this Problem, you do so by entering all information obtained from the clues using, perhaps, an X to indicate a definite "no" and a dot to show a definite "yes." Remember: Once you enter a definite "yes" (dot), place a "no" (X) in all the rest of the boxes in each row and column that contains the dot.

	Mauve	Pink	Red	Rose	almonds	filberts	peanuts	walnuts	9:00	10:00	11:00	12:00
Nancy												
Nanette												
Nellie												
Nora												
9:00												
10:00												
11:00												
12:00												
almonds												
filberts												
peanuts												
walnuts												

If you wish to learn more about the use of Logic Problem charts and how they can assist you, send for a free leaflet of easy-to-follow instructions, "Solving Logic Problems, Step by Step." Mail to Dell Math Puzzles and Logic Problems, Dept. L.P., Dell Puzzle Magazines, 1540 Broadway, New York, N.Y. 10036. Please enclose a stamped, self-addressed envelope (long-letter size, if possible, please).

CROSS SUMS



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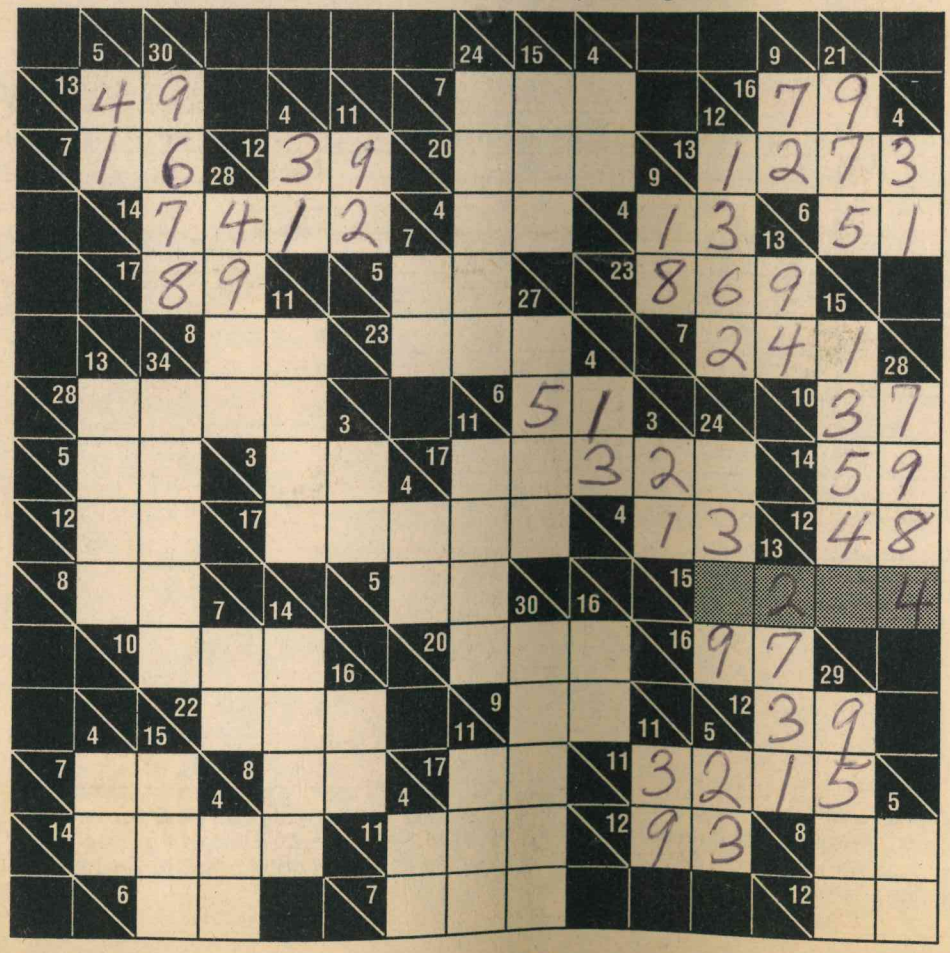
NUMBER 1

In Cross Sums puzzles, the numbers in the black squares refer to the SUMS of the digits which you are to fill into the empty spaces. The number ABOVE the diagonal line refers to the empty spaces directly to the RIGHT of that number. A number BELOW the diagonal line refers to the empty spaces directly BELOW that number.

No zeros are used here, only the digits one through nine. An important point: A digit cannot appear more than once in any particular digit combination. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

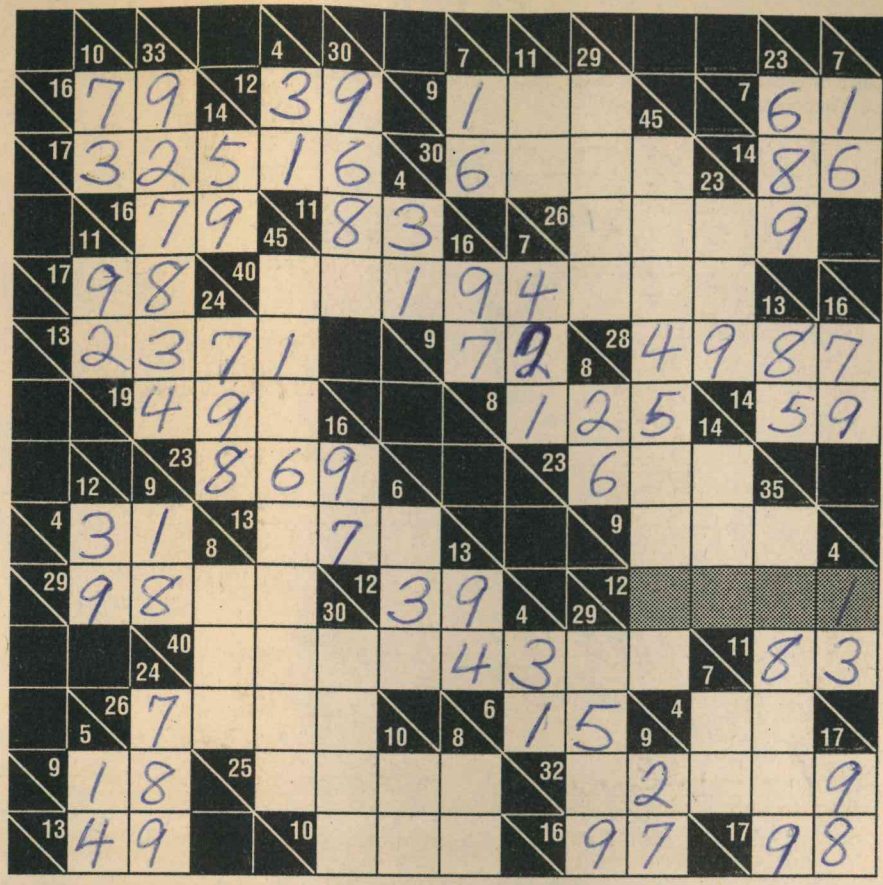


Solutions are on page 56.

NUMBER 2

CROSS SUMS

NUMBER 3



Solutions are on page 56.

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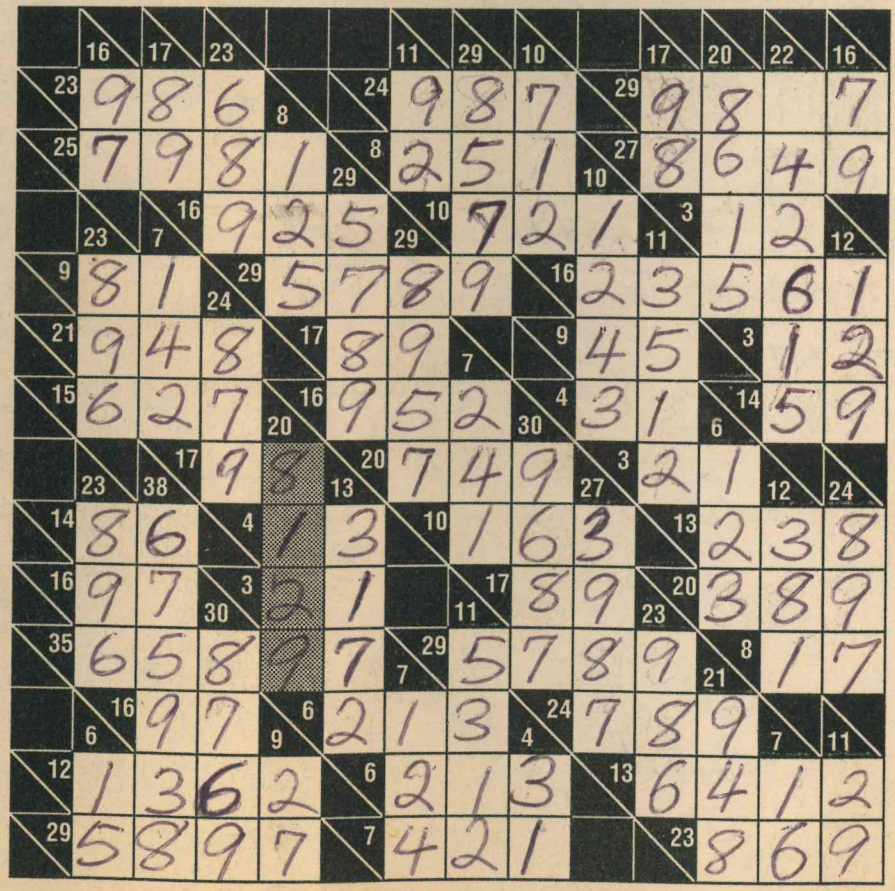
NUMBER 4



WORD ARITHMETIC

These are long-division problems in which letters are substituted for numbers. Solve the problem; determine the number value of each letter; and, when the letters in each one have been arranged in order from 0 to 9, they will spell out a word or words.

Solutions are on page 63.

1. TOPSURFACE

0 1 2 3 4 5 6 7 8 9

2145
POUR
2780 | 5964393
PACT | REFUSES
5560
RRFT
4043
UTUS
2780
PACT
1263 9
OPFSE
1 1 1 20
OOOPT
15193
OROES
13900
OSETT
1293
OPES

2.

0 1 2 3 4 5 6 7 8 9

ETA
IDEA | DENSEST
ATISE
OAMMS
PSTPT
AAIAT
IDEA
OETN

3.

0 1 2 3 4 5 6 7 8 9

SIC
SOLO | RISOTTO
RRSCR
RFRLT
OYOK
ICRYO
IIOII
SKSY

4. ARGYLESOCK

0 1 2 3 4 5 6 7 8 9

1026
RAGS
8779 | 9010795
COOK | KARAOKE
8779
COOK
23179
GYROK
17558
ROEEC
56215
ESGRE
52674
EGSOL
3547
YELR

Is that what I did on my cruise ship?

5.

0 1 2 3 4 5 6 7 8 9

CAL
INN | SOUND
SNI
NLN
INN
AIRD
AAOL
CN

6.

0 1 2 3 4 5 6 7 8 9

KIT
SKI | ASSIST
AKTK
ITHS
SKI
TYKT
HSGT
OOM

7. FIN

0 1 2 3 4 5 6 7 8 9

2
AND
1 2
ASIA | INDOORS
1 1
IIRAS
1 1 2
IINRR
2
RDNO
1
ALWIS
1
AIAFL
1
ANIW

8.

0 1 2 3 4 5 6 7 8 9

ERR
MORE | RADIUM
OUDO
MESEU
MDEUA
MEUYM
MDEUA
MAUS

9.

0 1 2 3 4 5 6 7 8 9

AS
MOON | COAST
MOON
GCSMT
GITCO
AUMU

FIGURE LOGIC 1

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Solve Figure Logic by completing some simple arithmetic problems, which will enable you to move from clue to clue through the puzzle.

TO PROCEED:

Look at the diagram at the bottom of the page and note that the number "658," answering clue 6-Across, has been entered as a starting point. The clue for 6-Across says that the answer is "Five more than 21-Down." You can now enter the answer to 21-Down into the diagram in the appropriate boxes. Your next step might be to the clue for 21-Down, or to some other clue that mentions either 6-Across or 21-Down. Continue solving by going from clue to clue in this manner.

You may discover that, at times, you will not be able to complete an entire number at first, but you may be able, by logic, to determine what one or more of the digits must be. If you enter those digits into the diagram, they may help you to solve other clues, and you can eventually return to the unfinished numbers and finally complete them.

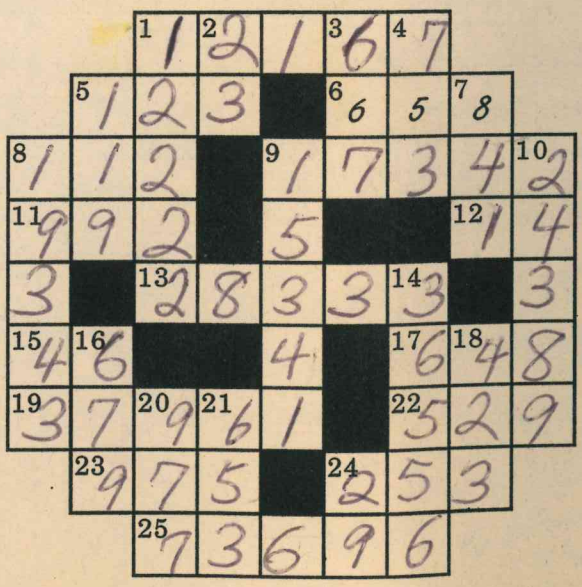
NOTE: A square of a number is that number multiplied by itself. For example, the square of 6 is 36 (6 x 6 = 36).

ACROSS

1. 22-Across times 2-Down
5. Consecutive digits in ascending order
6. Five more than 21-Down
8. Eight times 12-Across
9. Number halfway between 8-Down and 9-Down
11. Fifteen more than 20-Down
12. Sum of the digits of 21-Down
13. 20-Down times 24-Down
15. Twice 2-Down
17. 22-Across plus 5-Down
19. Eleven times 24-Down times 5-Down
22. Square of 2-Down
23. Seventeen less than 11-Across
24. Eleven times 2-Down
25. 6-Across times 8-Across

DOWN

1. 10-Down minus 1-Across
2. Last two digits of 5-Across
3. 2-Down times 24-Down
4. One hundred more than 21-Down
5. Seven more than 8-Across
7. Square of 24-Down
8. 3-Down times 24-Down
9. 3-Down times 2-Down
10. 7-Down times 24-Down
14. 1-Across plus 10-Down
16. One-eighteenth of 1-Down
18. Three hundred more than 5-Across
20. Two more than 23-Across
21. 3-Down minus 12-Across
24. Six more than 2-Down



Solution is on page 58

LOGIC PROBLEM

2. BLOCK LETTERS

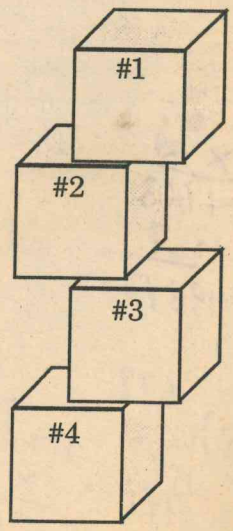
by DIANE BALDWIN

"Honey, I realize I shouldn't call you at work, but I simply HAVE to tell you what the baby just did! You know those differently colored blocks of his? The ones with different letters and different animals? Well, he just spelled a word with some of them! No, really — I couldn't believe it either! One year old, and already our little Jason is a genius! Let me tell you how it happened. I left him in the living room with the blocks while I was making lunch in the kitchen. I came back to check on him and I saw that he had stacked four of the blocks, one on top of the other. Moving a little closer, I noticed they spelled out a word reading downwards! Huh? What word, you ask? I'll tell you this much, he used an N and an E, and one of the four blocks has a turtle. Okay, okay, I'll give you more clues, but afterwards you have to describe the stack of blocks by letter, color, and animal, and tell me the word Jason spelled. Fair enough?

1. The blue block was stacked just above the one with the bunny and just below the one with the M.
2. The A wasn't on the bottom.
3. The block with the kitten was just below the green block, which doesn't have a vowel.
4. The pig block, which wasn't on the bottom, was stacked somewhere below the red block.
5. The bunny isn't on the yellow block."

Solution is on page 60.
See page 7 for directions on how to use the solving chart.

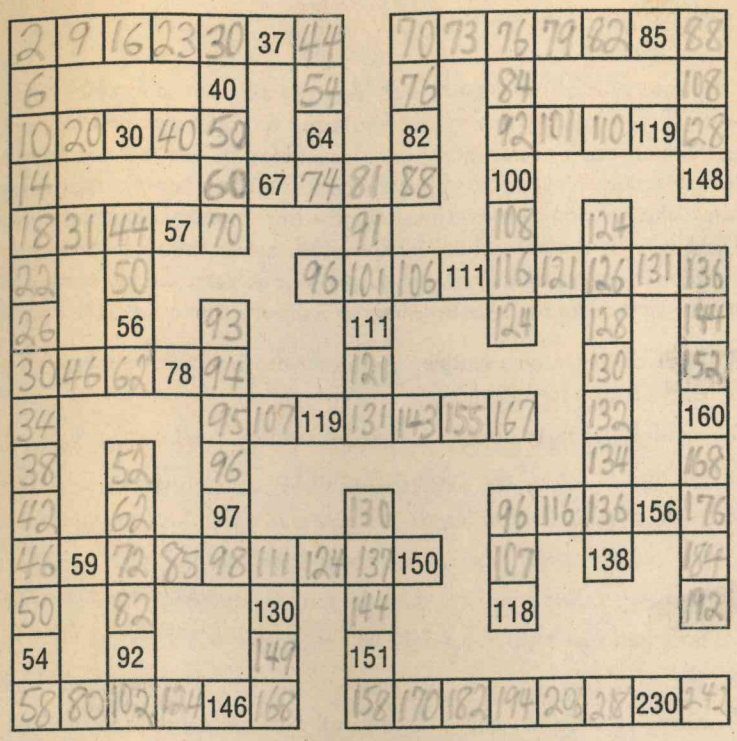
	bunny	kitten	pig	turtle	blue	green	red	yellow	#1	#2	#3	#4
A												
E												
N												
M												
#1												
#2												
#3												
#4												
blue												
green												
red												
yellow												



NUMBER FILL-IN

In this puzzle, the numbers to be entered into each row across and each column down will form a numerical sequence with the numbers already in the diagram. For example, if you saw the numbers 5, ?, 15 already in the puzzle, you could figure out that the missing number is 10, and the sequence involves adding 5 to each number to get the next number. The sequences always increase from LEFT to RIGHT and from TOP to BOTTOM. See if you can figure out each sequence and fill in all the missing numbers.

Solution is on page 58.



ODD LOTS

Odds are, you won't have too much trouble solving this puzzle! Your task is to find all of the Odd Lots in the diagram on the right. An Odd Lot is simply any three adjacent numbers on a diagonal adding up to 15; we've drawn a line through an example. Be warned, however, that not every number is part of an Odd Lot. How many Odd Lots can you find?

Solution is on page 58.

3	7	7	13	3	5	3	9	3	7	5	9
9	5	3	3	3	5	1	5	3	13	7	3
5	5	3	7	5	1	1	9	1	1	11	9
5	5	1	7	3	9	7	1	5	3	3	3
1	3	7	11	9	3	5	7	1	3	5	5
1	5	5	5	1	1	11	5	1	7	9	1
13	9	9	9	3	1	13	3	5	1	5	5
11	1	9	9	1	9	13	1	1	9	1	5
7	3	1	1	5	3	5	11	11	9	5	7
3	7	7	7	3	7	5	3	9	9	1	5
9	7	5	3	3	9	1	7	3	7	1	7
5	3	1	7	9	3	3	1	9	5	1	5

LOGIC PROBLEM

3. HOOKED ON ONYX

by MARY MARKS CEZUS

Troy and four of his friends recently got into a bit of trouble with their wives. You see, they extended a weekend fishing trip all the way to Tuesday but neglected to call home and notify their spouses! A week of icy conversations over dinner convinced each of the men that a present might be the best way to apologize, so the five got together and paid a visit to a local jewelry store. While there, each purchased a black onyx pin in the shape of a different animal for his wife. After the women received the jewelry and exchanged notes, however, the husbands were in the doghouse again: Although no two pins had the same gem for eyes (one had emeralds), the wives thought the similar gifts showed a distinct lack of imagination! From the clues below, can you determine each man's name, his wife's name (one is Edith), the shape of the pin he bought, and the gem used for its eyes?

1. Four of the men are Rick, the man who bought the elephant pin, the one who bought the pin with diamond eyes, and Kathy's husband.
2. Neither the tiger nor the whale (which was not bought by Lloyd) had sapphire eyes.
3. Neither Phil nor Georgia's husband bought the dolphin pin; Phil didn't buy the pin with pearl eyes.
4. Neither the salamander pin nor the pin which Rick bought had ruby eyes.
5. Lloyd (who is not married to Maggie) did not buy the pin with ruby eyes (which wasn't bought by Kathy's husband).
6. Rick (who didn't buy the dolphin pin) is not married to Georgia (whose husband did not buy the salamander pin).
7. Inez (who isn't Lloyd's wife) did not receive the tiger pin (which did not have pearl eyes).
8. The whale pin (which wasn't Rick's purchase) did not have diamond eyes.
9. Kathy's husband (who is not Norm) did not buy the salamander pin (which didn't have diamond eyes).

Solution is on page 60.
See page 7 for directions on how to use the solving chart.

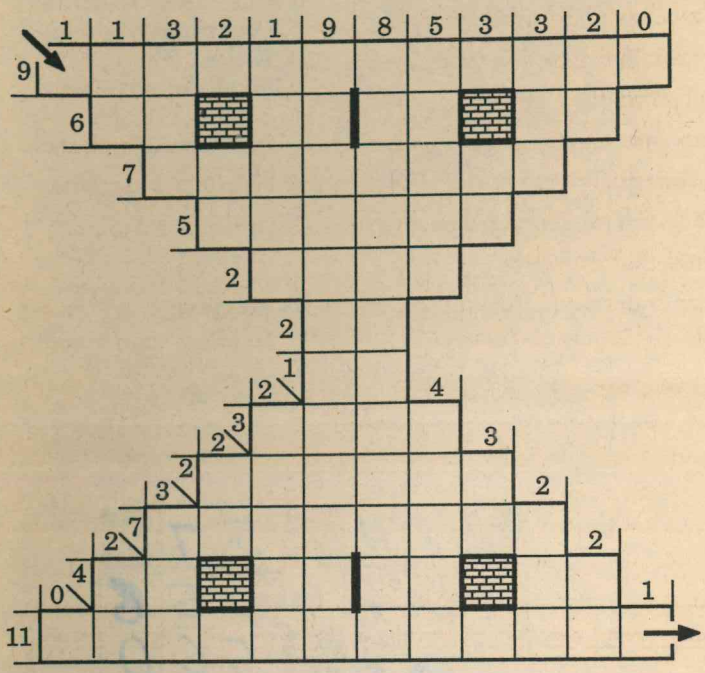
	Edith	Georgia	Inez	Kathy	Maggie	diam.	emer.	pearl	ruby	sapp.	dolp.	elep.	sal.	tiger	whale
Lloyd															
Norm															
Phil															
Rick															
Troy															
dolphin															
elephant															
salamander															
tiger															
whale															
diamond															
emerald															
pearl															
ruby															
sapphire															

MATH MAZES 1 & 2

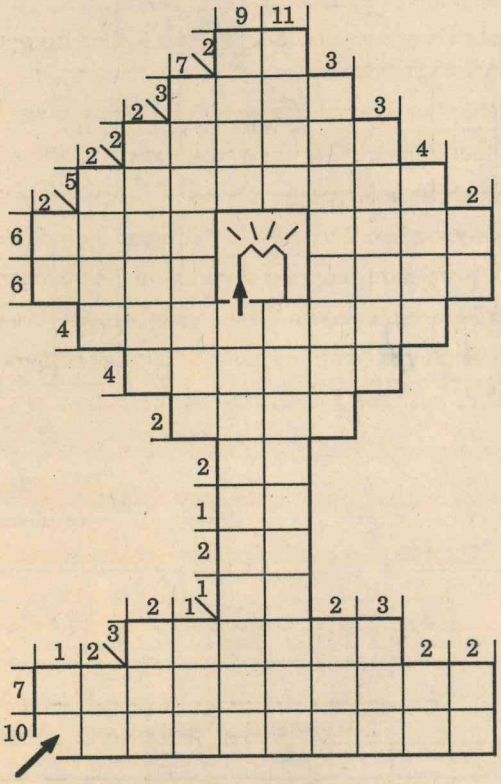
You'll have to use some deductive reasoning to make your way from start to finish in these mazes. Each maze is divided into squares; the number at the beginning of each row and column tells you exactly how many of those squares you will have to cross through in order to correctly reach the finish. For example in Math Maze #1, the number 9 is at the beginning of the first row across; this means you will have to cross through exactly nine of the squares in that row. You need not cross through all of them at once; you may leave a row or column and return to it later. For example, you might cross through the first two squares in the first row, then turn downward. You would then have to return to the first row later so that you use exactly nine squares before you finish the maze. No diagonal moves are allowed. Solving hint: To begin, blacken any square that you determine will not be used, and place a dot in any square that you know must be used. Your path should not cross through any heavy lines or bricked-up squares in the maze.

Solutions are on page 58.

1.



2.



LINES OF SIGHT

Solvers, this is where you draw the lines! All you have to do is to draw four straight lines in the square on the right so that eight sections of numbers, each adding up to 25, are formed. The solution our "line judge" came up with is on page 59.

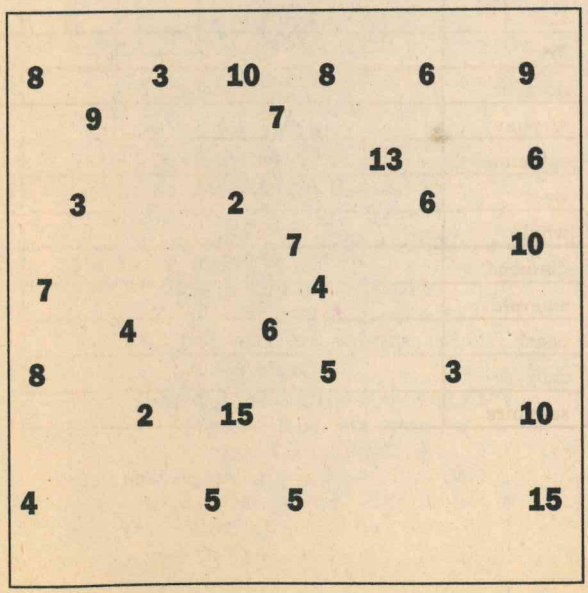


FIGURE LOGICS 2, 3, & 4

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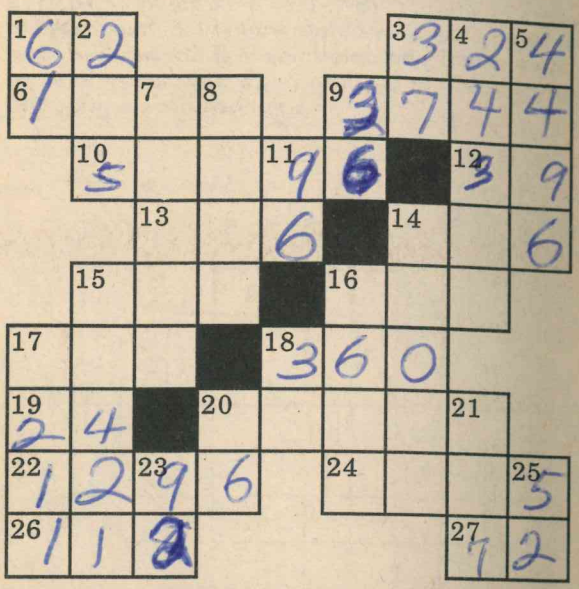
HINT: Start in the lower-right corner. Directions for solving Figure Logics are on page 11.

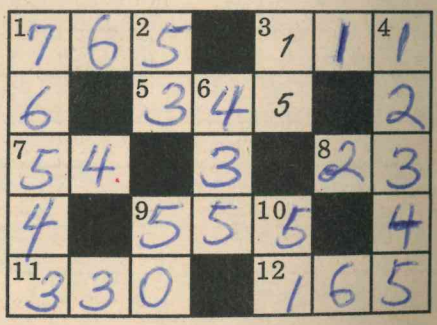


ACROSS

1. Number halfway between 25-Down and 27-Across
3. Nine times 9-Down
6. Square of 12-Across
9. 27-Across times 25-Down
10. 22-Across times 20-Down
12. Three-quarters of 25-Down
13. Twenty less than 16-Across
14. Nine times 20-Down
15. 17-Across plus 11-Down
16. 9-Down times 20-Down
17. Square of 20-Down
18. Five times 27-Across
19. One-third of 27-Across
20. 14-Down minus 22-Across
22. Square of 9-Down
24. Five more than five times 8-Down
26. Its first digit equals its second plus its third
27. Number of this clue, reversed

DOWN

1. One less than 1-Across
2. Nineteen more than 14-Across
3. One more than 9-Down
4. 17-Across times 9-Down
5. Seven times 26-Across
7. 14-Down plus 16-Across
8. 18-Down times 25-Down
9. One-half of 27-Across
11. Four times 19-Across
14. 4-Down minus 22-Across
15. Eight times 16-Down
16. Consecutive digits, but not in order
17. Seven times 3-Down times 19-Across
18. One-half of 1-Across
20. One-half of 25-Down
21. One less than twice 14-Across
23. Four less than 11-Down
25. Number of this clue, reversed

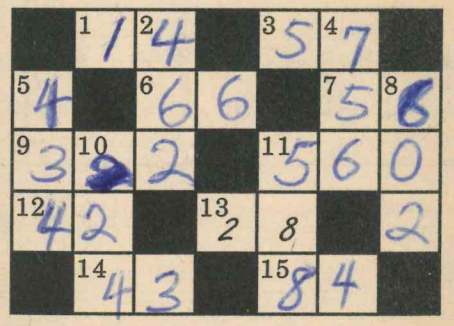


ACROSS

1. 3-Down times 10-Down
3. One-fifth of 9-Across
5. Last three digits of 4-Down, in order
7. One more than 2-Down
8. 5-Across divided by 3-Down
9. All of its three digits are the same
11. Twice 12-Across
12. 3-Across plus 7-Across

DOWN

1. Consecutive digits in descending order
2. Two more than 10-Down
3. One-eleventh of 12-Across
4. Consecutive digits in ascending order
6. Digits of 5-Across, rearranged
9. The sum of its digits is five
10. Digits of 3-Down, rearranged



ACROSS

1. 11-Down divided by 12-Across
3. 1-Across plus 14-Across
6. Ten more than 7-Across
7. One less than 3-Across
9. 1-Across times 13-Across
11. 8-Down minus 12-Across
12. Three times 1-Across
13. One-third of 15-Across
14. First two digits of 5-Down, in order
15. Twice 12-Across

DOWN

2. One-half of 10-Down
4. Consecutive digits, but not in order
5. 2-Down minus 13-Across
8. 1-Across times 14-Across
10. 1-Across times 6-Across
11. 11-Across plus 13-Across

Solutions are on page 58

LOGIC PROBLEM

4. THE READING RAILROAD

by DAVID CHAMPLIN

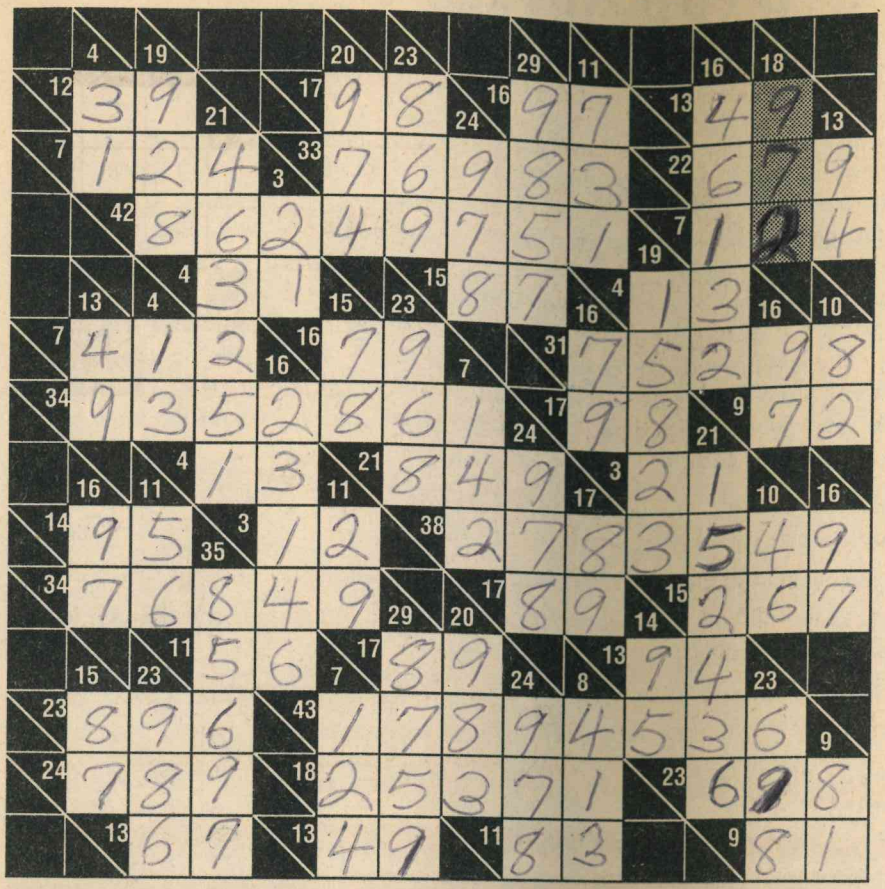
When Dellville Middle School's library was closed down for renovations last month, the principal needed to find a nearby building that could serve as a temporary replacement. You might say that after days of searching for an appropriate space, she finally got on the right "track"! That is, she called in some favors to get permission to borrow an abandoned train that had been sitting adjacent to school property for years; all she had to do was have the library's books, magazines, and furniture carted across the playground and loaded onto the dozen or so cars. Dubbed The Reading Railroad, the train has turned out to be enormously popular with the students, who adore the novelty of studying in a locomotive, a diner, etc. Periodicals are displayed in the caboose, where Leo and three of his friends are known to hang out. Each reads a different monthly fiction magazine devoted to a certain type of story, and each magazine (to which the school subscribes) is delivered at the caboose on a different week of the month. From the clues listed, can you figure out the full name of each student, the type of magazine he or she reads, and the week of the month when each magazine arrives? We promise not to disturb your "train" of thought anymore!

1. The Novales youngster's magazine arrives exactly one week before the magazine devoted to detective stories, which arrives sometime before the magazine John reads.
2. The Quayle child's magazine arrives sometime after the magazine read by the girl who loves westerns.
3. The four readers are Marcia, the Oaks child, the one who reads the science-fiction magazine, and the one whose magazine arrives during the third week of the month.
4. The Phong boy's magazine arrives sometime before Kathy's, which arrives earlier than the magazine filled with ghost stories.

Solution is on page 60.
See page 7 for directions on how to use the solving chart.

	Novales	Oaks	Phong	Quayle	detec.	ghost	sci-fi	west.	1st	2nd	3rd	4th
John												
Kathy												
Leo												
Marcia												
1st												
2nd												
3rd												
4th												
detective												
ghost												
sci-fi												
western												

CROSS SUMS



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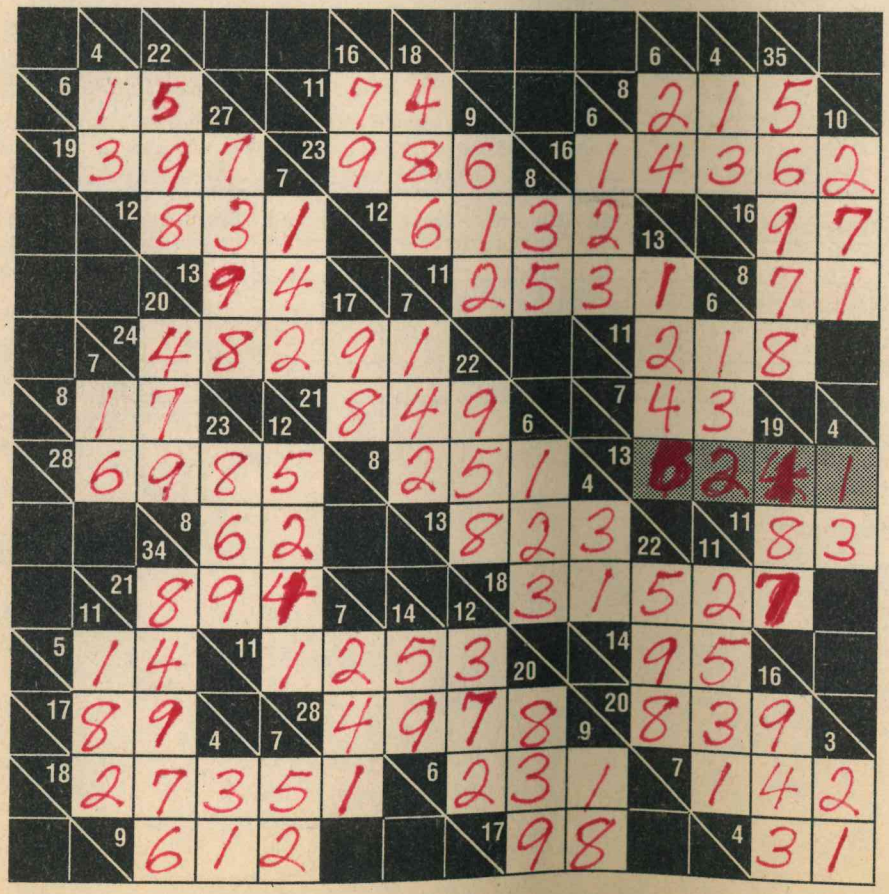
NUMBER 5

Directions for solving are on page 8. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

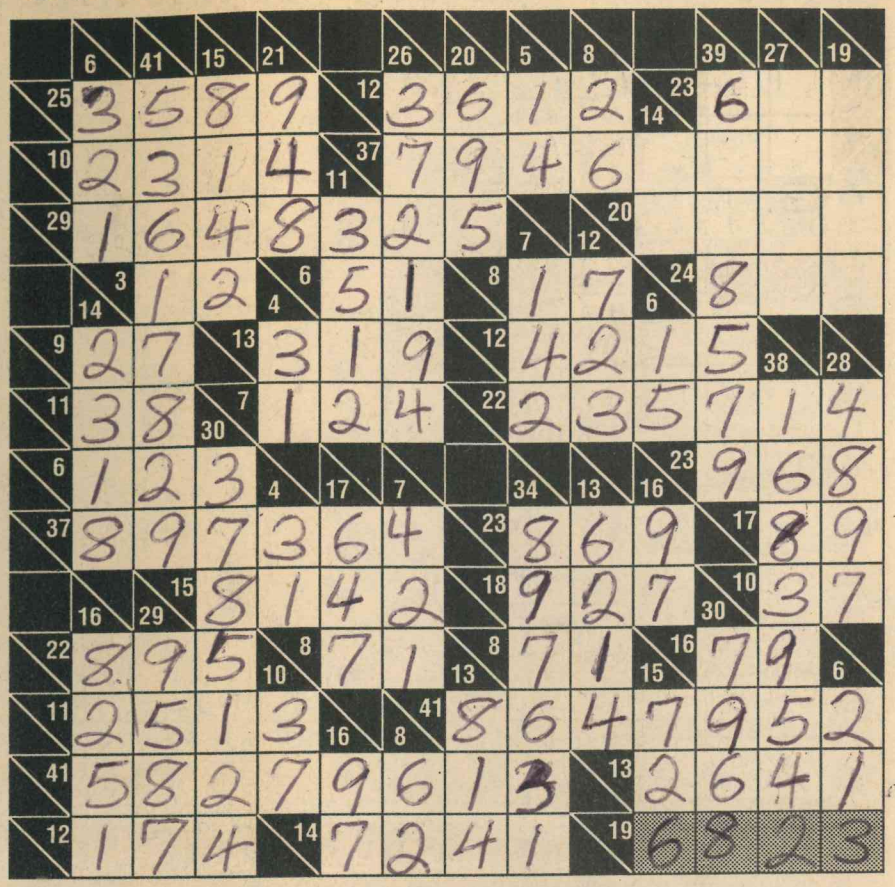
Solutions are on page 56.

NUMBER 6



CROSS SUMS

NUMBER 7



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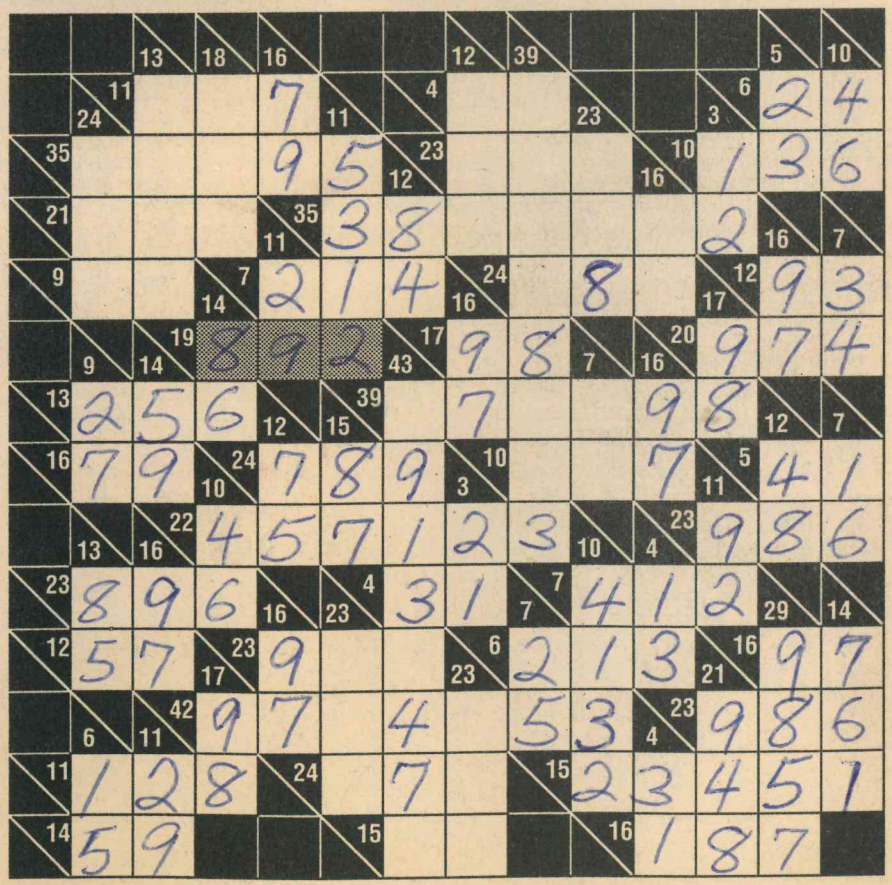
Solutions are on page 56.

NUMBER 8



WORD ARITHMETIC

Directions for solving are on page 10.

Solutions are on page 63.

10.

0 1 2 3 4 5 6 7 8 9

```
          RULE
DULL | ASSONANT
       ASODA
        RAUA
        DULL
        TTRUN
        URLSS
         AAUDT
         ATSLU
          UTLU
```

11.

0 1 2 3 4 5 6 7 8 9

```
          EARN
LIB | ISLANDS
       NBE
       IBVN
       IRIL
        ILBD
       ISNS
         INDS
        IALN
         IBL
```

12.

0 1 2 3 4 5 6 7 8 9

```
          LION
SON | NEBULAE
      NLCL
       NSSL
       NNII
         BOA
         AEO
          COE
          SON
          SUL
```

13.

0 1 2 3 4 5 6 7 8 9

```
          PAVE
GAP | PROPANE
      RNVY
       PNNA
       PIIO
        VVAN
        GAP
        EOPE
        VGON
         VRP
```

14.

0 1 2 3 4 5 6 7 8 9

```
          IRE
GERM | ORIGIN
       GERM
       GBHRI
       IURGM
        IEOEN
        IEBMB
          OIN
```

15.

0 1 2 3 4 5 6 7 8 9

```
          NINE
NEED | RISKIER
       EYYB
        DKEI
       NEED
         RSYE
       EYYB
        IKSYR
         SOON
          INID
```

16.

0 1 2 3 4 5 6 7 8 9

```
          ARK
BEAK | LESSER
       BEAK
       AMLIE
        IMBN
       BLBIR
       BASIA
         RIMA
```

17.

0 1 2 3 4 5 6 7 8 9

```
          AYE
RAT | DREAMY
       DEYY
        YTDM
       RAT
        TEAY
       TURH
         AAG
```

18.

0 1 2 3 4 5 6 7 8 9

```
          ANT
TOR | SCARES
       SSOR
        SORE
       SAAR
         UYES
       UUYR
         TCS
```

LOGIC PROBLEM

5. IN THE PRESENCE OF PRESENTS

by SUSAN ZIVICH

Jenny celebrated her ninth birthday last week with a pajama party for her five best friends. Each one came with a beautifully wrapped gift which Jenny, in her excitement, tore open in a flash. Alas — when she sat down later to write her thank-you notes, she was not quite sure who gave what gift! Luckily, Mom helped out some by coming to the rescue with photographs that she took during the party. From the information below (descriptions of the snapshots as well as Jenny's hazily remembered "either-or" facts), can you determine the full name of each party guest, the gift she brought, and how it was wrapped? Jenny sends her thanks for your help!

1. One picture shows Becky and the Delaney girl sitting cross-legged atop their sleeping bags.
2. Another picture shows Pam holding up the diary she brought and the Brubaker girl modeling the hairbow she gave.
3. There's one photo of the dinosaur T-shirt with the shiny green ribbon from its package; in the background, you can see a gift wrapped in clown paper and red ribbon.
4. Either Ginger or Danielle gave Jenny the blue-haired troll; the other one brought the gift with gold ribbon.
5. Still another photo shows the Malone girl placing her gift, which was wrapped in balloon paper, next to the gift wrapped in star-covered paper.
6. Either Becky or Meredith gave Jenny an engraved ID bracelet; the other used teddy-bear paper.
7. There's a funny snapshot of Ginger holding her gift with the blue ribbon while the Hoban girl is looping her silver ribbon around Jenny's head.
8. In one picture, the Quintana child is handing her present to Jenny as the gift with the teddy-bear paper sits on the coffee table behind them.
9. Either the troll or the diary was wrapped in confetti paper; the other had blue ribbon.

Solution is on page 60.

See page 7 for directions on how to use the solving chart.

		Brubaker	Delaney	Hoban	Malone	Quintana	gift: brac.	gift: diary	gift: hair.	gift: troll	gift: T-sh.	paper: bal.	paper: clo.	paper: conf.	paper: stars	paper: teddy	ribbon: blue	ribbon: gold	ribbon: green	ribbon: red	ribbon: silv.
	Becky																				
	Danielle																				
	Ginger																				
	Meredith																				
	Pam																				
ribbon:	blue																				
ribbon:	gold																				
ribbon:	green																				
ribbon:	red																				
ribbon:	silver																				
paper:	balloons																				
paper:	clowns																				
paper:	confetti																				
paper:	stars																				
paper:	teddy b.																				
gift:	bracelet																				
gift:	diary																				
gift:	hairbow																				
gift:	troll																				
gift:	T-shirt																				

CROSS FIGURE

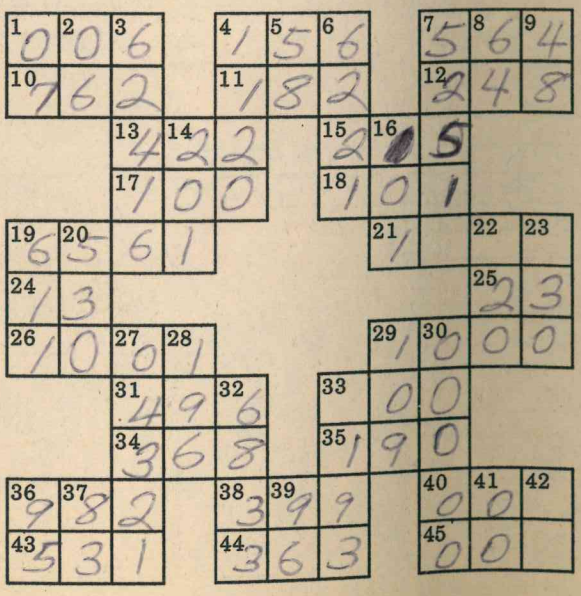
The "definitions" in this puzzle consist of short arithmetic problems, numerical-trivia teasers, number games, and number jokes. Write the digit or digits suggested by each "definition" into the diagram, crossword style.

ACROSS

1. 900 upside-down
4. Number of playing cards in three decks
7. 5/12 of a dozen, then a half of a dozen, and finally a third of a dozen
10. What you get when you omit every other letter in sledveernsstilxatowlo
11. This one had lunch, and that — —, —
12. Number of half-inches in three yards, one foot, and four inches
13. "Tea — —, and — for tea..."
15. An hour and a half after 12:45
17. Drop a letter from tent and add nothing
18. A knife on each side of a plate
19. Square the square of nine
21. Year of the Norman Conquest
24. Number of original American Colonies
25. W's place in the alphabet
26. How many "Arabian Nights" were there?
29. How many years are in a millennium?
31. IV less than D
33. Its second and third digits are the same, and if you put the second on top of the third, they look like the first!
34. July's days plus five, then August's number
35. Ten baseball teams plus twenty basketball teams
36. Reagan's 21st month as President
38. Number of mittenless kittens, then the lives of a cat, and finally the lives of another cat
40. Ideal income-tax payment
43. End of an odd countdown?
44. Three days short of a leap year
45. — hour, — and all, — -by-four

DOWN

1. James Bond, topless?
2. The Class of 19— will hold its 88th reunion this year
3. Half of twelve, divided by three, times two, divided by four, plus five
4. How many months are in 93 1/3 years?
5. Two, —, —, eleven, fourteen...
6. Sextet, duet, duet, solo
7. Number of seconds in fourteen hours, thirty-five minutes, and ten seconds
8. Two doubled doubled doubled doubled doubled
9. How many stars were on the U.S. Flag in 1948?
14. Five quarters, six dimes, three nickels, and a penny
16. "—nis, any—?"
19. Replace a letter in mix, ore, and ode
20. How many days are in six Aprils, eight Junes, three Decembers, two weeks, and three days?
22. After the first touchdown in yesterday's football game, the score was — — —
23. When many newscasts are aired
27. Unscramble nnoe, oruf, ereth, wot, and noe
28. After deducting 2% of 200, what's left?
29. One plus a gross minus three dozen
30. Any way you look at it, it doesn't amount to anything!
32. If their middle letters are i, g, r, and r, what are the numbers?
33. Its first two digits are the square of its third, which is the square of its fourth
36. An inch less than eight feet
37. Its second digit looks like the right half of its first
39. If you write it upside-down, it looks the same
41. First year of the 20th century, 19—
42. "—, — be in England now that April's there..."



Solution is on page 58

P.D.Q.

"P.D.Q." usually stands for "Pretty Darn Quick," but in this case, it also stands for "Problems Done Quickly"! See if you can come up with at least five correct answers to the questions below in 15 minutes. Anything more than five means you P.D.Q. — passed Dell's quota!

Answers are on page 59.

1. If 1/2 of a certain number plus 1/4 of that same number is equal to nine, what is that number?

2. Three high-school seniors bought a used car for $410. Bill contributed twice as much as Jim, and Arthur put in $200. How much did Jim spend on the car?

3. If eight times a certain number exceeds 1/2 of that number by 15, what is the number?

4. A carpenter has three 15-foot boards; he has to cut each one down into pieces three feet long. If he doesn't stack any of the boards on top of the others while he's sawing, how many cuts will he have to make to do the job?

5. A number multiplied by 16 yields the same result as it would if 105 were added to it. What is the number?

6. The length of a rectangle is six feet greater than its width. Find its width if its area is 112 square feet.

7. A certain number is composed of five digits, with the sum of those five digits equaling 24. The first digit is 1/2 the third digit, and the second digit is 1/4 the fourth digit. The last digit is equal to the sum of the first three digits. What is the number?

NUMBER PLACE

In these puzzles, your job is to place a number into each box so that each row across, each column down, and each small 9-box square within the larger square (there are 9 of these) will contain each number 1 through 9. Remember that no number may appear more than once in any row, column, or 9-box square; this will help you solve the puzzles.

Solutions are on page 58.

1. No gymnastics required.

4	5	7	8	1	2	3	6	9
1	3	6	9	5	4	2	8	7
8	9	2	6	7	3	1	5	4
3	2	1	7	4	8	5	9	6
7	4	9	5	2	6	8	1	3
5	6	8	3	9	1	4	7	2
2	1	5	4	6	9	7	3	8
6	7	3	2	8	5	9	4	1
9	8	4	1	3	7	6	2	5

2.

	9				7	4	1	
8		2	5					6
		4	6	1			8	
	4	8			2			1
1				7	5	2		
9			1			8	7	
	5			6	8		2	
	8		4			6		7
4		1		2				8

3.

		6	9		2	7		
	1			3		9	5	
7		9	5					2
	6		7				3	9
	7			9	1		8	
3		8			6	5		
5				7		1		8
6			1		3		9	
	4	1		8				7

FIGURE LOGIC 5

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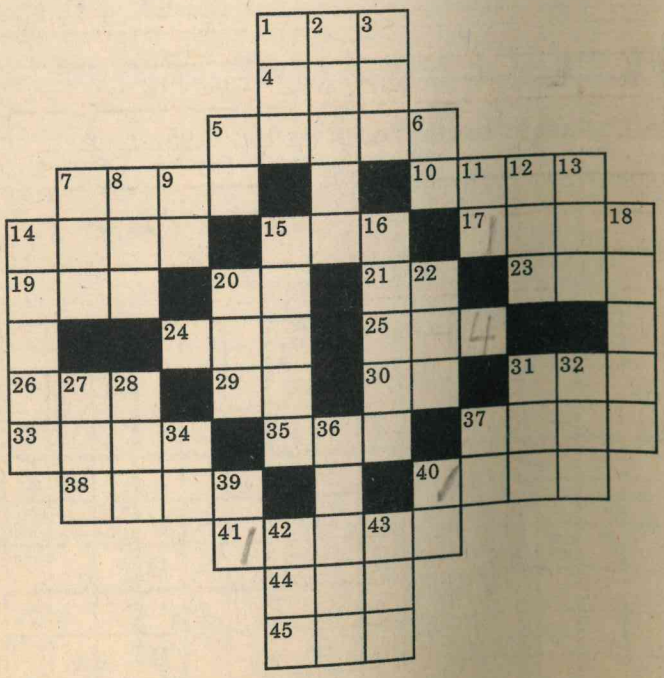
Directions for solving Figure Logics are on page 11.
If you need help starting this puzzle, starting digits are given on page 63.

ACROSS

1. 40-Down times 9-Down
4. Number that reads the same backwards and forwards
5. 45-Across times 37-Down
7. 20-Across times 26-Across
10. Its digits are four different odd numbers
14. 100 more than 33-Across minus 7-Down
15. Square of 40-Down
17. 4-Across plus 26-Across
19. One-half of 1-Down
20. Sum of the digits of 35-Across
21. One-half of 37-Down
23. 26-Across minus 25-Across
24. 1-Down minus 12-Down
25. Four times 11-Down
26. Consecutive digits in ascending order
29. One less than 5-Down
30. 29-Across plus 34-Down
31. Second, third, and fourth digits of 18-Down, in order



33. The sum of its digits equals 21-Across
35. 26-Across minus 22-Down
37. 40-Down times 22-Down
38. The sum of its first and second digits equals the sum of its third and fourth
40. 1-Across plus 1-Down
41. 7-Across plus 14-Across
44. 15-Across plus 35-Across
45. Three-quarters of 3-Down

DOWN

1. 1-Across plus 9-Down
2. One-third of 18-Down
3. Square of 37-Down
5. Sum of the digits of 5-Across
6. Digits of 5-Down, reversed
7. 4-Across minus 34-Down
8. Last three digits of 17-Across, in order
9. 11-Down plus 37-Down
11. Digits of 40-Down, reversed
12. 3-Down minus 11-Down
13. Consecutive digits in descending order
14. 3-Down plus 5-Across plus 36-Down
15. Twice the difference between 14-Across and 26-Across
16. 45-Across times the difference between 4-Across and 3-Down
18. 6-Down times 26-Across
20. Square of 20-Across
22. One-third of 26-Across
27. 12-Down plus 15-Across
28. 19-Across plus 45-Across
31. 23-Across minus 30-Across
32. 29-Across times 9-Down
34. Three times 40-Down
36. 34-Down times 10-Across
37. Its second digit equals twice its first
39. The sum of the digits of 26-Across
40. 37-Down minus 20-Across
42. 19-Across minus 39-Down
43. Number that reads the same backwards and forwards

Solution is on page 58

LOGIC PROBLEM

by MARY POWELL

6. *THE NEW WORK TIMES*

Summer Valley is a thriving community tucked in between two small mountain ranges near the West Coast. Far from being a major metropolitan area, this picturesque town is gaining a reputation as a magnet for hardy individualist types. In fact, so many people have moved there to start their lives over again that a townsperson was able to found a newspaper, *The New Work Times*, devoted to chronicling residents who have made drastic midlife job changes. Four such Summer Valley citizens were profiled in an article in the latest edition; a chart that accompanied the text has been reprinted below. From the following clues, can you determine their full names (one last name is Sorenson), as well as each person's former and current occupations?

1. Carmen and the former teacher threw a housewarming party for their friend who became a farmer.
2. Pat doesn't know the physical therapist.
3. The former travel agent doesn't know the person who became a decorator.
4. Neither Nash nor the pilot has ever met the former nurse.
5. Lou is not Wentworth, who is not the former painter.
6. Chris knows all three of the others; Brecht, who isn't Carmen, knows only two.

Solution is on page 60.

See page 7 for directions on how to use the solving chart.

The New Work Times

		Brecht	Nash	Sorenson	Wentworth	current: decor.	current: farm.	current: phys.	current: pilot	former: nurse	former: paint.	former: teach.	former: trav.
	Carmen												
	Chris												
	Lou												
	Pat												
former	nurse												
former	painter												
former	teacher												
former	travel agent												
current	decorator												
current	farmer												
current	physical therapist												
current	pilot												

LOGIC PROBLEM

7. GO*SOLVERS*GO

by JULIE SPENCE

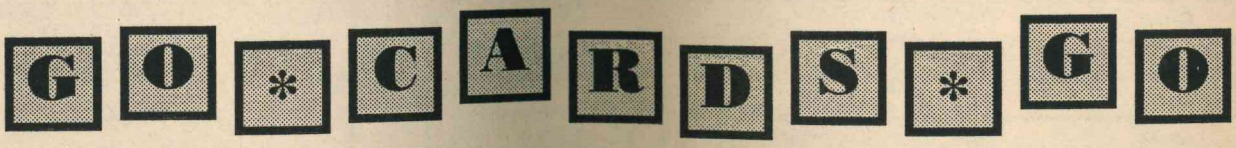
At the Dellville Middle School (where The Reading Railroad is stationed — see page 17), students and their parents take basketball games very, VERY seriously. To say that the D.M.S. Cardinals are popular is a bit of an understatement; even team tryouts fill the gymnasium with spectators every year! As you might expect, there is really no need for cheerleaders at Cardinal games, since the crowds can always be depended upon to demonstrate their unusually strong spirit. Some students, such as Sue, Nick, and nine of their friends, have gone so far as to develop their own special cheering techniques. At the last game, for example, these eleven friends sat in a row in the bleachers and periodically held up large cards which spelled out "GO*CARDS*GO." Each student held one card, each card bearing either a letter or an asterisk. From the information below, can you determine which card each student held?

NOTE: The directions left and right refer to the viewpoint of someone reading the message on the cards.

1. A boy sat at each end of the row.
2. Peter sat somewhere to the right of Paul (who did not hold a G) and somewhere to the left of Pam.
3. The word GO at each end was spelled out by a boy and a girl, in some order.
4. Nora and another girl held the two cards with asterisks.
5. Ann sat somewhere to the right of Andrew and somewhere to the left of Amy, who didn't hold an asterisk.
6. Sam is not the boy who held a card with his own initial.
7. Nathan did not sit next to Peter or sit on either end of the row.
8. No student sat next to another with the same first initial.

Solution is on page 60.

We found using the card layout below to be more helpful than solving with the normal chart.

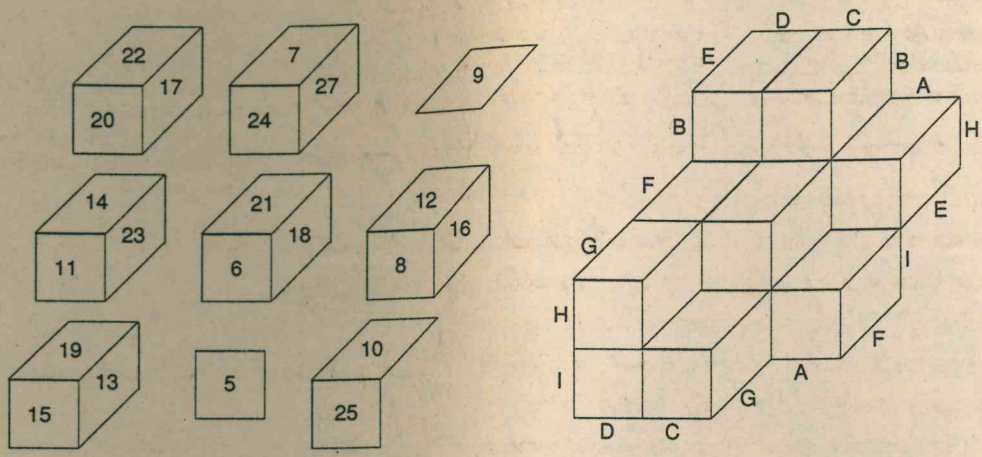


ON THE SURFACE 1-3

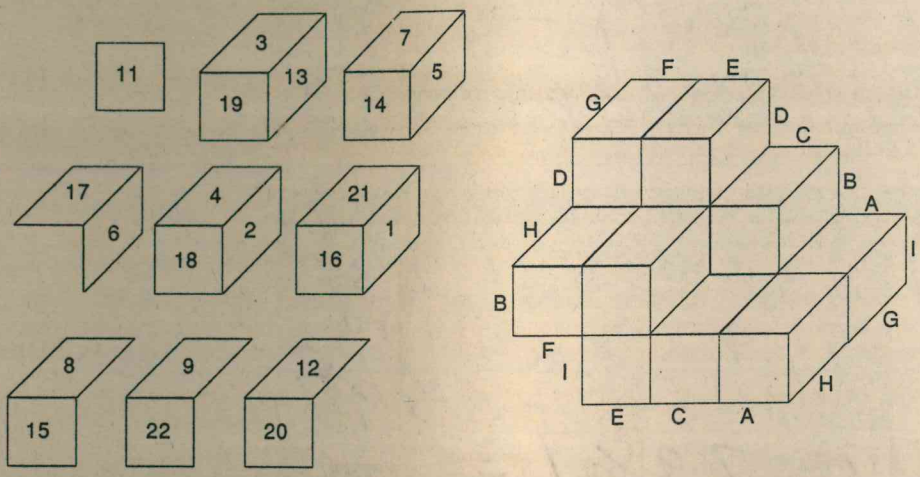
Here's a trio of three-dimensional puzzles that require both mathematical and spatial skills to solve. Fit the pieces on the left into each diagram on the right so that the numbers on the surfaces of each lettered row (from A to A, B to B, etc.) add up to the target number given. Do not rotate the pieces or fit a piece into a section of the diagram that does not match the piece exactly. For example, in the first diagram below, the single-surface piece at the beginning of Row F can only be the single-surface piece with the 9. Continue in the same manner until all the pieces are fit into the diagram.

Solutions are on page 58.

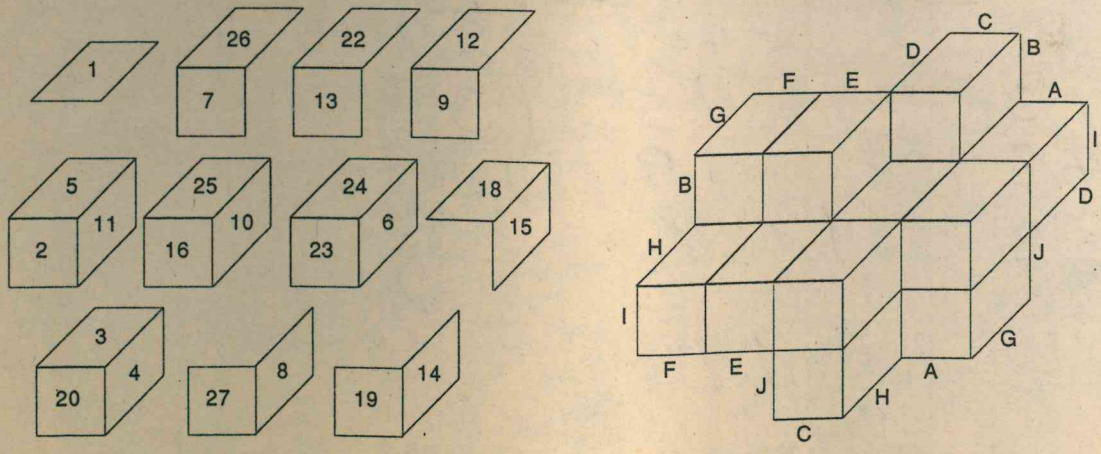
1. TARGET NUMBER: 76



2. TARGET NUMBER: 54

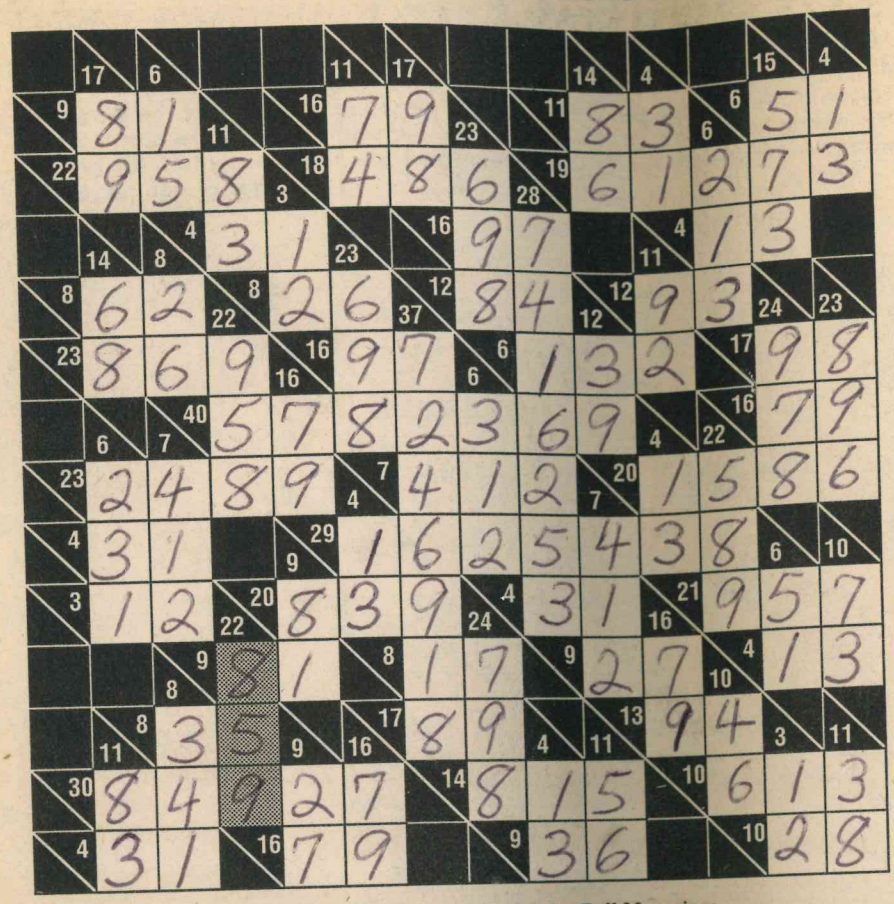


3. TARGET NUMBER: 68



On the Surface #4, a special jumbo-sized puzzle, is on page 44.

CROSS SUMS



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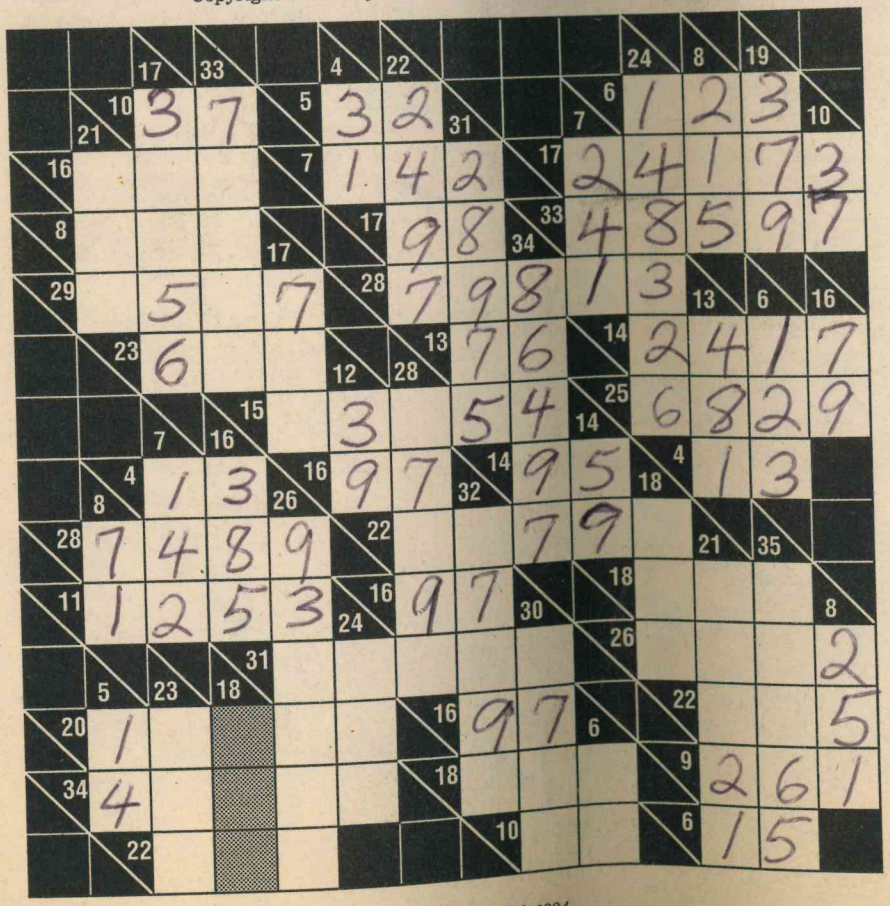
NUMBER 9

Directions for solving are on page 8. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

Solutions are on page 56.



NUMBER 10

CROSS SUMS

merry chismas and happy new yer marty

NUMBER 11

and happy hanukkah

~~birthday~~

~~Honey~~

~~Honey~~ Honey HON honey

Solutions are on page 57.

	12	30	10		28	21		11	28		7	28	24
7	1	4	2	16 17	9	7	15	7	8	21 6	4	9	8
28	3	1	8	9	5	2	22 21	4	5	1	3	2	7
17	8	9	20 9	8	6	1	5	14 11	9	5	16 15	7	9
	12 3	8	4	23 21	8	3	4	2	6	8 23	2	6	13
11	1	3	5	2	20 11	8	9	3	22	8	4	1	9
7	2	5	10 25	4	6	4 17	3	1	10 9	2	1	3	4
	10	15 33	7	1	5	2	28 14	5	6	9	8	26	7
26	8	3	6	9	7	5	2	4 22	3	1	8 14	2	6
11	2	1	3	5	10 13	7	1	2	17 12	3	9	4	1
	17 11	8	9	16 7	6	3	4	1	2	6 11	5	1	23
10	3	7	4 5	3	1	29 8	7	9	5	8	16 3	7	9
26	7	9	1	4	2	3	33	7	4	3	2	9	8
10	1	5	4	9	4	5	4	3	1	10	1	3	6

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Love Deb

NUMBER 12

dont

for get me ~~a~~ me idea

IF YOU DO O WILL

		23	11	9	11		10	21	15		13	26	
	26 12	8	9	6	3	9	1	6	2	9	7	2	29
16	4	6	2	3	1	21 9	9	3	4	23 11	6	8	9
17	8	9	18	12 31	7	5	10 6	7	1	2	10	3	7
	22	17 13	9	8	7 13	4	3	12 17	3	9	12 14	7	5
17	7	4	3	2	1	9 11	1	3	5	19 29	5	6	8
38	9	8	6	5	4	3	2	1	12 23	3	9	6	16
7	6	1	22 15	9	8	5	23 10	6	8	9	11 7	3	8
	19	16 18	9	7	37 33	1	3	7	9	6	4	2	5
22	9	7	6	7 10	4	2	1	16 13	6	4	2	1	3
7	2	5	15	6	9	11 12	6	5	8 13	7	1	16	8
10	7	3	21 11	4	8	9	10 4	8	2	8	4 6	3	1
9	1	2	6	9	5	1	3	35	8	6	5	9	7
	6	1	5	10	7	2	1	10	3	2	1	4	

WORD ARITHMETIC

Directions for solving are on page 10.

Solutions are on page 63.

19.

0 1 2 3 4 5 6 7 8 9

```
          ROT
      ------------
HAZY | ATHWART
       AMOYT
       -------
        OTCMR
          HAZY
          ----
          TAAYT
          MROTW
          -----
            HYAW
```

20.

0 1 2 3 4 5 6 7 8 9

```
          NO
      ------------
BORN | BRIGHT
       BING
       -------
         TGLGT
         TLHWH
         -----
           IRTI
```

21.

0 1 2 3 4 5 6 7 8 9

```
          TOE
      ------------
ORE | SHEET
      SFT
      ---
        FDE
        ORE
        ---
        OAGT
        OFGS
        ----
          SH
```

22.

0 1 2 3 4 5 6 7 8 9

```
          RAM
      ------------
ORE | EARTH
      ORE
      ---
      ADAT
      RTFM
      ----
        YMHH
        YOYA
        ----
          RRT
```

23.

0 1 2 3 4 5 6 7 8 9

```
          SAND
      ------------
OWED | INVESTS
       IAVO
       ----
        IWSS
        OWED
        ----
        VNTTT
        VEEWV
        -----
          SNTSS
          SIOEN
          -----
            AWTV
```

24.

0 1 2 3 4 5 6 7 8 9

```
          NAN
      ------------
NOG | TINGE
      TRA
      ---
        URG
        SOI
        ---
        ROSE
          TRA
          ---
          REN
```

25.

0 1 2 3 4 5 6 7 8 9

```
          IN
      ------------
MOAN | GHOST
       NHSW
       ----
         GWGT
         GWWH
         ----
           OG
```

26.

0 1 2 3 4 5 6 7 8 9

```
          AS
      ------------
URNS | RUINS
       WEIA
       ----
        UZQUS
        UUWZS
        -----
          UIEQ
```

27.

0 1 2 3 4 5 6 7 8 9

```
          OR
      ------------
HEAR | SHINE
       HEAR
       ----
         NEAEE
         NIAAH
         -----
           OMCN
```

FIGURE LOGICS 6 & 7

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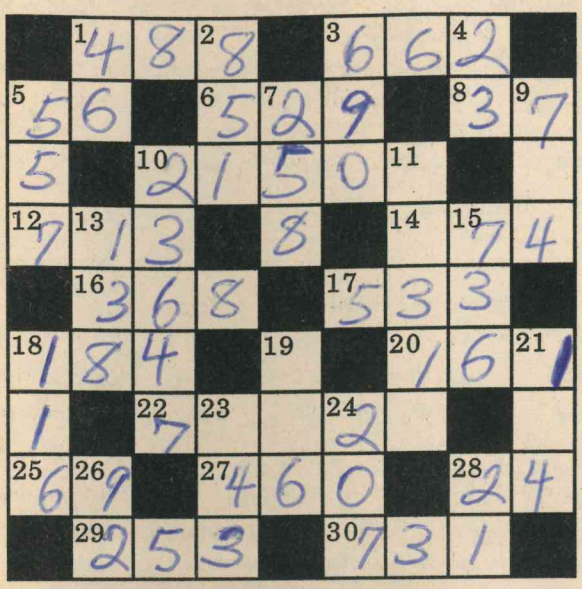
Directions for solving Figure Logics are on page 11.
If you need help starting these puzzles, starting digits are given on page 63.

ACROSS

1. 5-Down minus 25-Across
3. 1-Across plus 18-Across
5. One-sixth of 19-Down
6. Square of 4-Down
8. 2-Down divided by 4-Down
10. Digits of 27-Across and 28-Down, shuffled
12. 3-Down plus 4-Down
14. 23-Down minus 25-Across
16. Twice 18-Across
17. Four more than 6-Across
18. Twice 26-Down
20. 25-Across plus 26-Down
22. Digits of 6-Across and 8-Across, shuffled
25. Three times 4-Down
27. 29-Across plus 24-Down
28. One more than 4-Down
29. 18-Across plus 25-Across
30. Digits of 12-Across, rearranged

DOWN

1. Consecutive even digits in ascending order
2. 20-Across plus 3-Down
3. Five times 13-Down
4. One-half of 1-Down
5. 17-Across plus 28-Across
7. Five less than 29-Across
9. Digits of 14-Across, rearranged
10. Digits of 28-Across and 15-Down, shuffled
11. Digits of 5-Across and 13-Down, shuffled
13. Three times 1-Down
15. Twice 16-Across
18. Digits of 20-Across, rearranged
19. One-half of 3-Across
21. One-half of 7-Down
23. 29-Across plus 3-Down
24. Three times 25-Across
26. Twice 1-Down
28. Two less than 4-Down

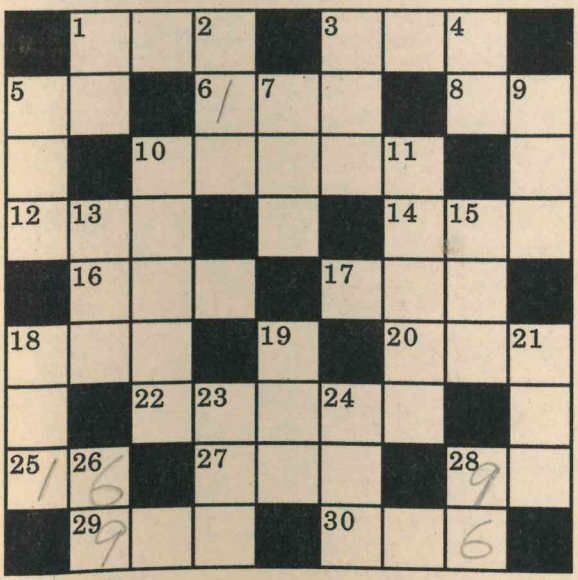


ACROSS

1. Twice 15-Down
3. Twice 16-Across
5. Three times 25-Across
6. Twice 28-Down
8. Two less than 1-Down
10. 15-Down times 26-Down
12. 3-Across minus 28-Down
14. Three times 20-Across
16. 30-Across minus 14-Across
17. 18-Across plus 20-Across
18. 29-Across minus 6-Across
20. Three times 5-Across
22. Twice 10-Across
25. One-sixth of 28-Down
27. 2-Down minus 28-Down
28. 25-Across plus 1-Down
29. 3-Across plus 13-Down
30. 9-Down minus 25-Across

DOWN

The sum of the digits of each Down answer equals 15.



Solutions are on page 58

LOGIC PROBLEM

8. "WHAT AN *INTERESTING* COMBINATION!"

by W. LEE MOSS

Although they probably would deny it, Mr. Smiley and three of his male neighbors have absolutely no color sense when it comes to dressing up. Left to their own devices, they'll mix red with orange, brown with blue — hey, you name a gaudy combination, one of them's done it! Thank goodness for their wives who prevent the men from looking ridiculous. However, what happens to these fashion disaster-areas when their spouses aren't around? As luck would have it, this was the case one day last week when all four women were out of town for one reason or another, and the husbands had to choose their own outfits. The results, to put it mildly, were calamitous! Each selected a coat, shirt, tie, and pair of pants, but all four items were different colors (red, orange, brown, and blue). And if, heaven forbid, you were courageous enough to look at all four guys simultaneously, you'd see that no two coats, no two shirts, no two ties, and no two pants were of the same color, either. From the clues below, can you identify each couple by their full names, determine the reason for the wife's absence, and describe each man's unfortunate outfit?

NOTE: The women in this Logic Problem have taken their husbands' last names...and are pretty embarrassed about it!

1. Harold chose neither the blue shirt nor the orange coat; his wife was not the one attending a business conference.
2. One man wore both the orange pants and the brown tie; his wife (who was on tour as a tennis pro) is neither Gretchen nor Mrs. Samuel Venturi.
3. One man was decked out in a red tie, a blue coat, an orange shirt, and a brown pair of pants.
4. The four men are Glen, the one who wore blue pants, the one who chose the red coat, and the man who chose the brown shirt.
5. Neither Patricia nor the woman who was at a seminar is married to the man in the brown coat.
6. Jenny Peterson and Marvin's wife are best friends; Mrs. Grange's husband wore the red shirt. None of these three women is married to the man who combined red pants with a blue tie.
7. Shelley is not the woman who spent the day with her mother.
8. Patricia's husband didn't wear a blue shirt.

Solution is on page 60.

We found using the fill-in chart below to be more helpful than solving with the normal chart.

HUSBAND	WIFE	LAST NAME	REASON	COAT	SHIRT	TIE	PANTS

Taking an ICS course solved more than just my career problems... it solved my personal problems too...

My old job was depressing! I hated going to work every day, so of course my frustration couldn't help but affect my personal life. Sure, my husband Mike is great, but sometimes we'd both come home, tired after a hard day's work, and then the arguing would start...why didn't we ever have enough money...why couldn't we ever take a real vacation...why couldn't we drive a better car—sound familiar?

Well, one day Mike and I decided that our relationship wasn't the problem...we really loved each other. The problem was not having the kind of career that would give us the better things in life.

Fate stepped in...

It was then that fate stepped in. Mike and I happened to be reading different magazines one day and by coincidence we both saw ads for International Correspondence Schools. ICS offers home-study courses in over 54 career fields. Can you believe it, we were so closely attuned that we both sent in ICS post-paid cards for free information on the careers we were most interested in.

Received career pack in just a few days...

Just a few days later we received our free ICS Career Packs in the mail. I thought, if ICS can respond this fast, well, that's a real indication that they're on the ball and know what they're doing. Anyway, the career packs gave us all the facts—I signed up for the Computer Programming Course and Mike enrolled in TV/VCR Repair.

Well, that was six months ago and today we've both graduated and gotten jobs in our new career fields. We found that having the famous ICS reputation backing us up really made a big difference to employers.

ICS even wrote us letters of recommendation...

ICS had strong accreditation...had trained over 10 million men and women...had been around for over 100 years...well, all of those things really impressed people when we were going out on job interviews. The ICS people even wrote us letters of recommendation after we completed our training.

The difference between night and day...

Compared to the past, our new life together is like the difference between night and day. Now we have time for each other and the money to do the things we want. I feel so much better about myself! And romance? Well, Mike and I just got back from a week in Hawaii. It was like a second honeymoon, only better because now we know where we're going in life...and in a strange way I really feel a lot of the credit goes to ICS.

Call Toll Free

1-800-992-8765 Ext. 2588

CALL ANYTIME—24 hours a day, 7 days a week.

444XB

To get your free ICS career pack, call toll free or mail the coupon below today.

SENT FREE

ICS SINCE 189[illegible] Over 100 Years & Freelance

Fascinating, lavishly illustrated Career Pack tells you how you can train at home for a great new career. Find out how you can change your life for the better. Mail this coupon today!

International Correspondence Schools, Dept. AEJS14S, 925 Oak Street, Scranton, PA 18515

Please send free facts on how I can train at home for the career I have chosen. No obligation. No salesman will visit. **CHECK ONE COURSE ONLY.**

ASSOCIATE IN SPECIALIZED BUSINESS DEGREE PROGRAMS
- ☐ Business Management
- ☐ Accounting
- ☐ Business Management with option in Marketing
- ☐ Business Management with option in Finance
- ☐ Applied Computer Science

ASSOCIATE IN SPECIALIZED TECHNOLOGY DEGREE PROGRAMS
- ☐ Mechanical Engineering Technology
- ☐ Civil Engineering Technology
- ☐ Electrical Engineering Tech.
- ☐ Electronics Technology

CAREER DIPLOMA PROGRAMS
- ☐ Computer Programming
- ☐ Computer Programming/ COBOL
- ☐ Personal Computer Specialist
- ☐ Computer-Assisted Bookkeeping
- ☐ PC Repair
- ☐ Desktop Publishing & Design
- ☐ High School
- ☐ Catering/Gourmet Cooking
- ☐ Medical/Dental Office Asst.
- ☐ Auto Mechanics
- ☐ Bookkeeping
- ☐ Hotel/Restaurant Mgmt.
- ☐ Drafting
- ☐ Animal Care Specialist
- ☐ Air Conditioning & Refrigeration
- ☐ Electronics
- ☐ Secretary
- ☐ Electrician
- ☐ Police Sciences
- ☐ Art
- ☐ Small Business Mgmt.
- ☐ Interior Decorating
- ☐ Wildlife/Forestry Conservation
- ☐ Legal Secretary
- ☐ Gun Repair
- ☐ Motorcycle Repair
- ☐ Surveying & Mapping
- ☐ Fitness & Nutrition
- ☐ TV/VCR Repair
- ☐ Child Day Care
- ☐ Legal Assistant
- ☐ Photography
- ☐ Journalism/Short Story Writing
- ☐ Florist
- ☐ Teacher Aide
- ☐ Home Inspector
- ☐ Medical Transcriptionist
- ☐ Real Estate Appraiser

Name_____ Age_____

Address_____ Apt. #_____

City/State_____ Zip_____

Phone ( )_____

BINGO PLAYS

Here's a puzzle that doesn't require math skills, even though it's all numbers. You are trying to fill your "card" with numbers and make a winning Bingo game. Just as in Bingo, each column has limits set for the numbers that can be placed in that column, as shown at the top of the card. For example, in column B, every square will have a number between 1 and 15 inclusive; in column N, every number will be between 31 and 45 inclusive. Use the given clues to eliminate possibilities within those limits until you can enter one final number in each square. A number will appear only once in any row or column. The "free" space in the center of the card is just that; you need not enter a number in that square. After you have filled in your card, find the Bingo winning combination: Just as in Bingo, the five numbers in one row, column, or diagonal will fit the clues given. Circle these numbers and you have won the game!

Solution is on page 58.

	B 1-15	I 16-30	N 31-45	G 46-60	O 61-75	
P						P
L						L
A			FREE			A
Y						Y
S						S
	B	I	N	G	O	

1. The number one does not appear in row S, column G, square PB, PN, LB, AI, AO, YI, YN or YO, or in the winning combination.
2. The number two does not appear in square PI, PG, PO, LI, LO, AB, YB, YN or SO.
3. The number three does not appear in row L or S, column B, I or G, or square PN or YO.
4. The number four does not appear in row Y, or square LB, LG, LO, AG, AO or SG.
5. The number five does not appear in row P or L, column B, I or N or O, or in the winning combination.
6. The number six does not appear in row A or Y, column B or I, or square PG or SG.
7. The number seven does not appear in row L, column B, I or N, or square PO, AG, YG or SO.
8. The number eight does not appear in row L, A or S, or column N, G or O.
9. The number nine does not appear in row P, A, Y or S, or column B or O.
10. Zero does not appear in row P, column B or O, or square AG or SI.
11. The number 33 is the only double-number combination on the card.

FUN SETTEE

From Hedda, to all five employees:

We will hold a staff meeting in my office tomorrow morning. Bring pen (either the squirting type or one that uses disappearing ink) and paper (either fake parchment or a money pad) and obey the following rules:

1. If you take notes on a money pad, you may not wear a beanie.
2. If you use a squirting pen, you may not use fake parchment paper.
3. If you use disappearing ink or wear a clown nose, don't sit on the left end of the couch.
4. If the person who sits on the far right end of the couch doesn't wear a beanie, then no one may.
5. If you wear a clown nose, you may not use disappearing ink.

Do everything right and you'll get a piece of sponge cake!

As you might expect, the Fun Novelty Company holds rather — er, *zany* staff meetings. Need proof? Just read the memo (pictured to the left) that President Hedda DeClasse sent to her employees last Monday. At the meeting on Tuesday, Wayne Dwopp and his four coworkers lined up on Hedda's couch. Penny Weiss noted the following:

6. Stan Doff was not the only person wearing a clown nose.
7. Warren Pease didn't want to mess up his hair with a propeller beanie.
8. Ima Plummer turned to the left side of the couch and spun the propeller on the beanie worn by the woman next to her. When Ima turned to the right side of the couch, however, the person next to her squirted her with a pen.

Since everybody got a piece of sponge cake (made from real sponges, of course), can you determine where the five staffers sat, and what items each brought to the meeting?

Answer is on page 59

LOGIC PROBLEM

9. FIVE GUYS SITTING AROUND A POOLROOM

by SADIE I. CANINA

Here's a Logic Problem about five guys — Bill, Carl, Greg, Hugh, and Paul — who sit around a poolroom most of the day. Many folks might have a tendency to call them idle loafers, since all they do is hang out there aimlessly, desperately hoping that something interesting will happen. But hey, don't get the wrong idea! Truth to tell, this "poolroom" is the room where the pool of word processors waits for assignments at Consolidated Industries, Incorporated! Last week turned out to be abnormally busy for the five young men, since they worked Monday through Friday for five different executives. No two word processors worked for the same executive on the same day, and none worked for the same executive twice. Taking your "cue" from the clues below, can you deduce the week's work schedule for each word processor in the poolroom?

1. Greg didn't work for Edna on Monday.
2. Hugh didn't work for Anne on Tuesday.
3. Carl didn't work for Rita on Wednesday.
4. Hugh worked for Rita on Thursday.
5. Hugh worked for Dora the day after Greg worked for Rita, which was the day after Carl worked for Judy.
6. Carl worked for Dora the day before Bill worked for Anne, which was the day before Paul worked for Edna.

Solution is on page 61.

We found using the fill-in chart below to be more helpful than solving with the normal chart.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
BILL					
CARL					
GREG					
HUGH					
PAUL					

ATTENTION, LOGIC PROBLEM FANS!

We are presently looking for new constructors to make Logic Problems for various Dell puzzle magazines. For your puzzles to be considered, they must be typed (double-spaced) with your name and address appearing on every page. The format of our currently published Logic Problems should be followed as much as possible, so don't forget to include your solution on a separate sheet of paper (but no chart is needed). If you want your material to be returned, please enclose a self-addressed stamped envelope. Send your Logic Problems to: Department NLP, Dell Puzzle Magazines, 1540 Broadway, New York, New York 10036.

FIGURE LOGIC 8

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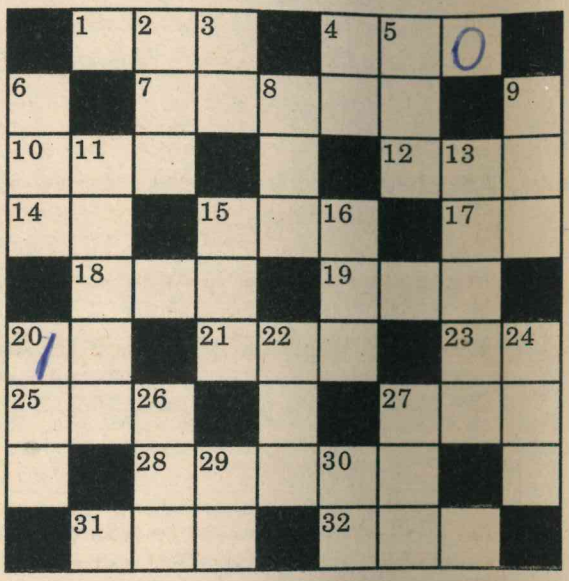
Directions for solving Figure Logics are on page 11.
If you need help starting this puzzle, starting digits are given on page 63.

ACROSS

1. Four hundred more than 27-Across
4. Ten times 4-Down
7. Consecutive digits in ascending order
10. One-half of 5-Down
12. One-half of 8-Down
14. 29-Down minus 30-Down
15. 16-Down plus 30-Down
17. One-sixth of 25-Across
18. 2-Down minus 30-Down
19. 4-Across plus 20-Across
20. Six less than 14-Across
21. 18-Across minus 25-Across
23. One more than 30-Down
25. One-half of 1-Across
27. 20-Across plus 27-Down
28. 8-Down times 20-Down
31. Four hundred less than 15-Down
32. 1-Across minus 24-Down

DOWN

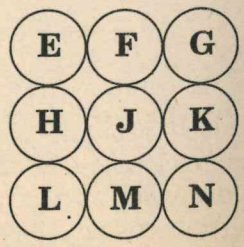
2. The sum of its digits equals 20-Across
3. One-half of 20-Down
4. Two times 17-Across
5. 12-Across plus 21-Across
6. 19-Across minus 31-Across
8. 10-Across plus 27-Across
9. Consecutive digits, but not in order
11. One-half of 28-Across
13. Digits of 7-Across, rearranged
15. 15-Across plus 20-Across
16. 26-Down plus 30-Down
20. One-half of 12-Across
22. Consecutive odd digits in ascending order
24. 6-Down minus 3-Down
26. Twice 6-Down
27. 32-Across minus 17-Across
29. First two digits of 31-Across in order
30. Twice 20-Across



Solution is on page 58

CRYPTIC MATH

Each of the nine letters stands for one of the numbers one through nine, but no two letters stand for the same number. Using the clues below, can you deduce the number represented by each letter? **Answer is on page 59.**



1. In two of the three rows of circles, the second and third numbers in the row are evenly divisible by the first number in the row, which in both rows is greater than 1.
2. Each column of circles consists of three consecutive numbers in some order.
3. E + 1 = J, and J + 1 = M.

NUMBER DECATHLON

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Which of the eleven numbers listed will win the Number Decathlon? To find out, try your hand at this variation on our popular Letter Decathlon. During each of the ten events below, one of the numbers will be eliminated. You are to bring only the numbers which remain after any event to the next event, and the events must be run in alphabetical order. At the end of the ten events, one number will remain; that number wins the Decathlon. This is a time test, so be sure to have a watch or clock handy to see how long it takes you to determine the winning letter. Our Distinguished Dell Decathlete finished all ten events and declared a winner in 6 minutes, 10 seconds.

Answer is on page 59.

12 19 6 27 24 14 3 21 18 9 15

EVENT A: First, assign the letter I to 12, C to 19, T to 6, B to 27, E to 24, N to 14, W to 3, A to 21, H to 18, L to 9, and K to 15. Next, add up the values of the letters in the word BLACK and subtract from that the sum of the values of the letters in the word WHITEN. Eliminate the number that results.

EVENT B: Arrange the remaining numbers in order from the smallest to the largest, and eliminate the number that doesn't belong in the group.

EVENT C: Eliminate the number that is equal to ✦ in the following equations:

✦ + ✦ + ✦ + ✶ = 60
✶ + ✶ + ✶ + 18 = 90

EVENT D: Eliminate the number that, when written in the center square, correctly completes the diagram below.

72	9	8
12		4
6	3	2

EVENT E: Eliminate the number that is not the correct answer to any of the arithmetic problems below.

17 + 10 = ____
886 – 868 = ____
13 + 11 = ____
3 x 5 = ____
63 ÷ 7 = ____
3 x 4 x 1/2 = ____

EVENT F: If the sum of the greatest, third-greatest, and fifth-greatest remaining numbers is smaller than the sum of the second-greatest, fourth-greatest, and sixth-greatest remaining numbers, eliminate the fifth-greatest remaining number; otherwise, eliminate the second-greatest remaining number.

EVENT G: Ed had seven apples. He lost one, leaving him with ____. He ate two, then bought fourteen, so then he had ____. His sister next gave him one half as many apples as he had at that time, bringing his total up to ____. Finally, he used a dozen to make applesauce, so then he had ____. Eliminate the number that doesn't fit on any of the blanks above to complete the story correctly.

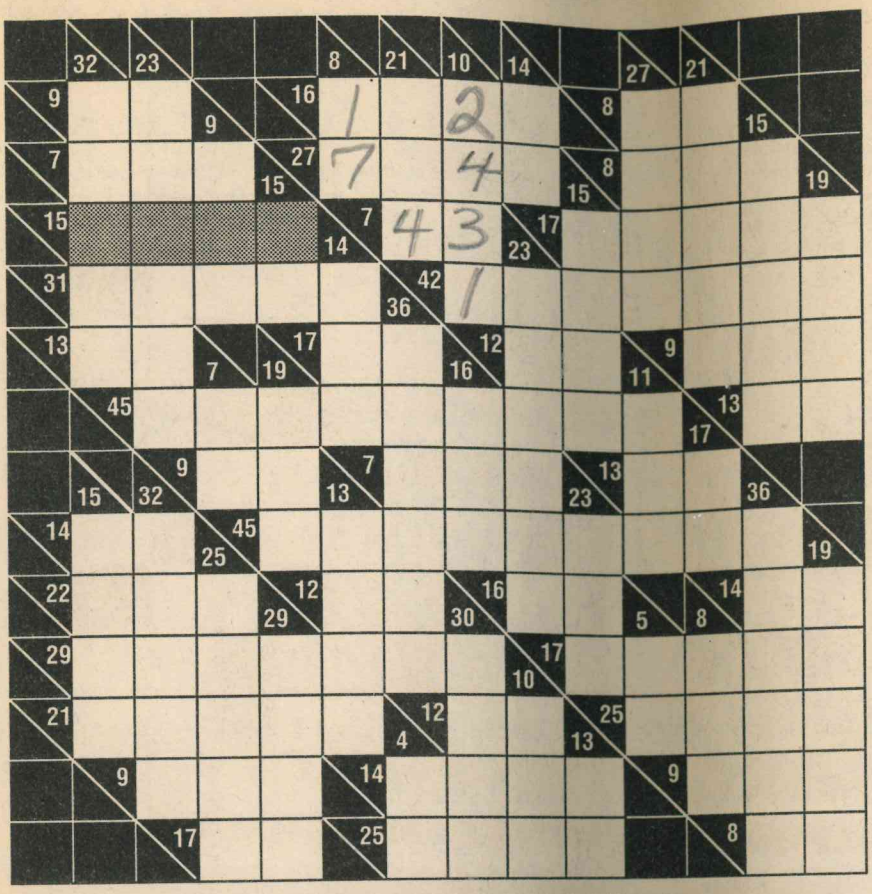
EVENT H: Eliminate the number that appears second on an alphabetical list of the remaining four numbers.

EVENT I: Add the numbers eliminated in Events A and F, and divide this sum by the number eliminated in B. Multiply this number by the number eliminated in C, and next subtract the number eliminated in E. Multiply this number by the number eliminated in G. Eliminate the number that is the final result of these calculations.

EVENT J: Eliminate the two-digit number.

The remaining number is the winner of the Number Decathlon. Does your winner match ours?

CROSS SUMS



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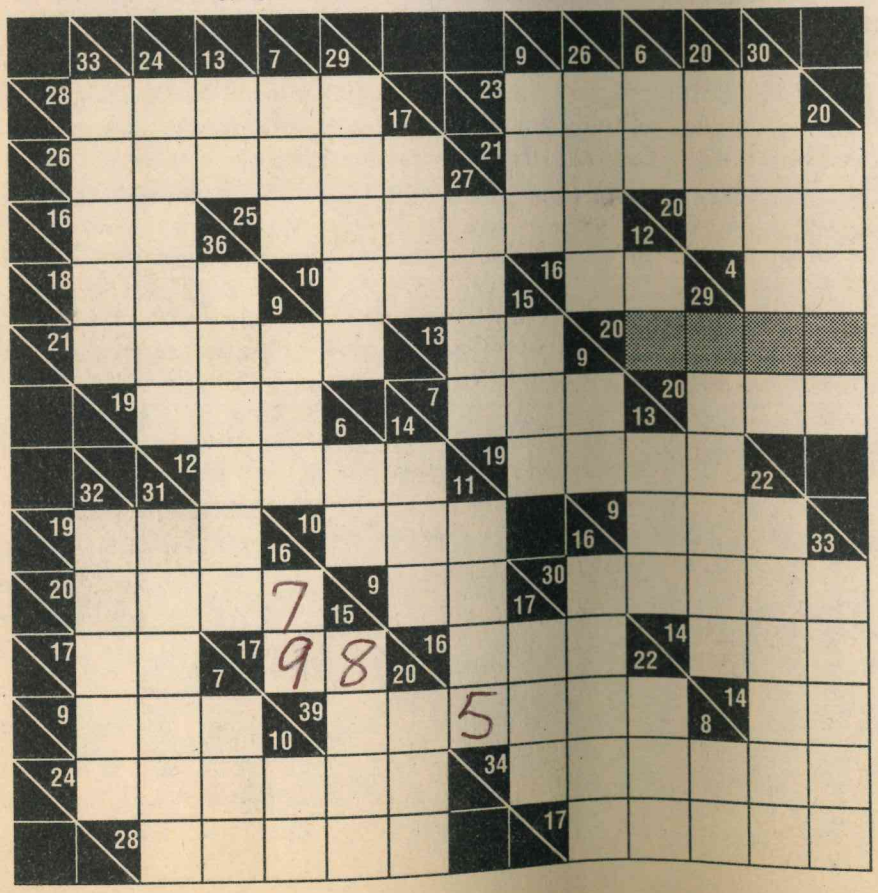
NUMBER 13

Directions for solving are on page 8. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

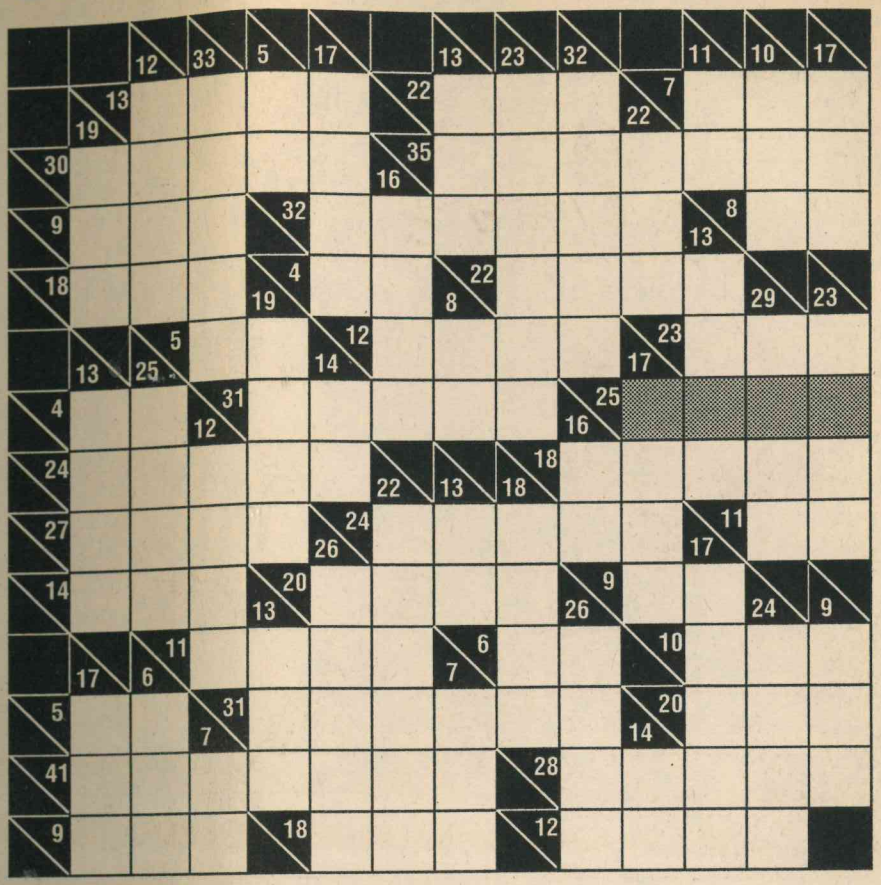
Solutions are on page 57.



NUMBER 14

CROSS SUMS

NUMBER 15



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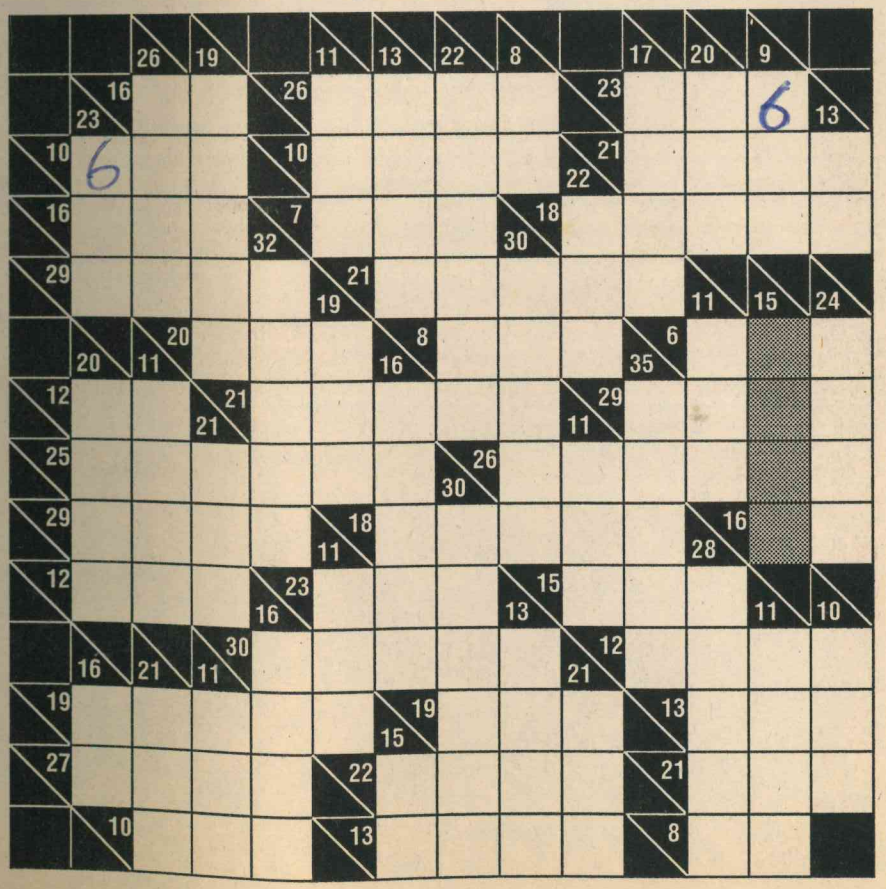
Solutions are on page 57.

NUMBER 16



WORD ARITHMETIC

Directions for solving are on page 10.

Solutions are on page 63.

28. WILDFRENZY

0 1 2 3 4 5 6 7 8 9

```
          2167
          LIEN
2603 | 5641763
LEWD | REFINED
     5206
     RLWE
     4357
     FDRN
     2603
     LEWD
     17546
     INRFE
     15618
     IREIZ
     19283
     IYLZD
     18221
     IZLLI
     1062
     IWEL
```

29.

0 1 2 3 4 5 6 7 8 9

```
        SEEN
ADE | MODELS
    OSL
    AHOE
     YOY
      YLL
     YOY
       NYS
      NES
       NH
```

30.

0 1 2 3 4 5 6 7 8 9

```
          NO
LESS | EFFECT
     ENOSB
      NTEUT
     EBCSU
       ECUO
```

31.

0 1 2 3 4 5 6 7 8 9

```
         SON
OWN | MOWING
    MLYG
     GIGN
     YYIM
      OSGG
     OLFL
      MGY
```

32.

0 1 2 3 4 5 6 7 8 9

```
         GET
CUR | NORTH
    OEG
    UACT
    UGCO
     GNNH
     GNUG
       TO
```

33. DOG

0 1 2 3 4 5 6 7 8 9

```
          SUM
EGG | EDGIER
    GMSU
     OGEE
     OHGU
      GIOR
      GIDM
        E
```

34.

0 1 2 3 4 5 6 7 8 9

```
          AN
THIN | NIBBLE
     NSBNL
      ISYSE
      HTNAE
       TSYS
```

35. FOURWHALES

0 1 2 3 4 5 6 7 8 9

```
          OUR
781 | 96083
LEO | SAFER
    LEO
    OLSE
    OHAU
     URAR
     URWR
       UF
```

36. MO

0 1 2 3 4 5 6 7 8 9

```
          US
SUES | HEATS
     CACC
      OUEES
      DETD
      SMST
```

LOGIC PROBLEM

10. OFF-THE-WALL, BUT ON THE WALL TOO!

by ANNE SMITH

As you might guess from its name, the Off-the-Wall Wallpaper Shop carries a wide variety of rather unusual wallpaper. Want to cover your den with purple ostriches? Or redo your basement with mini-depictions of the construction of the Brooklyn Bridge? Or even splash sequined likenesses of Pia Zadora all over your foyer? Not to worry, Off-the-Wall stocks any kind of wallpaper you'll ever need! Recently, five new customers (one was Edna) found out just how extensive the shop's inventory is when they visited it in search of a specific wallpaper (one was looking for paper with a pattern of mathematical equations). Each was able to purchase exactly the pattern and color(s) he or she desired, and immediately hung the paper in a different room (one was a kitchen) of his or her house. By chance, all five of their purchases used the same five colors, but each of the five colors was bought by a different number of people. From the clues below, can you determine each customer's first name, the room that he or she wallpapered, and the pattern and color(s) of that wallpaper?

1. Chester spends a lot of time woodworking in his garage, so he wallpapered that room with a vibrant wallpaper that contains five different colors.
2. The 1-color, patternless paper was not hung in the bathroom or the bedroom.
3. Three people purchased wallpaper that contains fuchsia.
4. The five customers were Albert, the person who bought the yucca-patterned paper, the one who wallpapered the bathroom, the only person whose wallpaper contains the color mauve, and the one whose wallpaper contains four different colors.
5. The number of people who have puce in their wallpaper is greater than the number of people who bought paper with ecru, but smaller than the number of people who purchased chartreuse.
6. Beatrice's wallpaper has more colors than the paper with the stampeding-elephants pattern, but fewer colors than the paper that hangs in the living room.
7. Doris (who did not wallpaper her bathroom) purchased her wallpaper before the person whose pattern consisted of Presidential portraits did.

Solution is on page 61.

We found using the fill-in chart below to be more helpful than solving with the normal chart.

NAME	ROOM	PATTERN	NUMBER OF COLORS	COLOR(S)

LOGIC PROBLEM

11. IT PAYS TO ADVERTISE

by W. LEE MOSS

The Darrin and Stephens Advertising Agency helps clients attract new customers through innovative promotional campaigns. At D&S, there are seven agents who sell colorful advertising space in various publications to its clients; each client can choose black, yellow, red, or any combination thereof. During one week (Monday through Friday) not so long ago, seven clients (one is Ms. Wills) bought ad space from different agents, and as a result of these ads, each gained a different number of new customers. No two, as it turned out, chose the exact same color configuration. From the clues below, can you determine the day of the week each client bought ads, his or her full name (one's first name is Bob) and business (one sells cameras), the color(s) chosen, the number of new customers gained because of the campaign (one gained 24), and the full name of the agent who sold him or her the space?

1. Wanda Wilson's client and Marsha bought ad space the same day and both chose yellow; on another day, Mr. Warren's client and the appliance lady bought ad space, both choosing black.
2. The man who bought space on Monday, the woman who gained 29 new customers, and Lori Benton each chose only one color; their agents, in some order, are Bruce, Mr. Richards, and the agent whose client is the flower man.
3. In some order, the shoe man, Mr. Cocker, Glen's client, and the woman who gained 26 new customers all chose red on four consecutive days.
4. The seven clients are Carla Parks, the bakery woman, the man who chose red and yellow only, Angela's client, Tuesday's client, the one who gained 27 new customers, and Mr. Smithson's client.
5. The jeweler gained one more new customer than the woman who chose yellow and black only, but three fewer than Bob; Mr. Goodson, who gained 30 new customers, bought ads three days before the woman who chose red alone.
6. Gordon, Mr. Mathis, and the man who chose black only are clients, in some order, of the agent whose client gained 28 new customers, Mrs. Marks, and the jeweler's agent.
7. Deborah's client, who did not choose yellow, bought his ad space the day before the client who gained 25 new customers did, but the day after John did; Helen did not choose red.
8. Stan, Mr. Davis, and Mrs. Probst sold ad space, in some order, on Tuesday, Wednesday, and Friday.
9. Philip's client chose all three colors and Ms. Thayer chose only one color; neither sells furniture.
10. As it turns out, each client and his or her agent are of the opposite sex.

Solution is on page 61.

We found using D&S's sales sheet below to be more helpful than solving with the normal chart.

D&S Sales Sheet, Week of 11/15/93

Day	Agent		Client		Color(s)	Business	Cust'rs

FIGURE LOGIC 9

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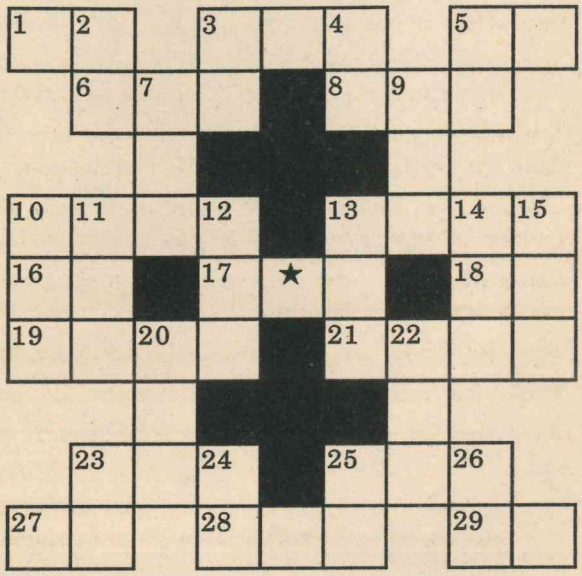
Directions for solving Figure Logics are on page 11.
If you need help starting this puzzle, starting digits are given on page 63.

ACROSS

1. The sum of its digits equals the number in the starred box
3. 28-Across minus 26-Down
5. 1-Across plus 3-Down
6. 16-Across times 3-Down
8. 23-Across plus 27-Across
10. Digits of 13-Across, rearranged
13. Three times 10-Down
16. The sum of its digits equals the number in the starred box
17. 3-Down times 4-Down
18. 27-Across plus 2-Down
19. 21-Across minus 13-Across
21. Twice 10-Across
23. 3-Across times the number in the starred box
25. 14-Down plus 23-Down
27. Three times 3-Down
28. Digits of 7-Down, rearranged
29. Twice 27-Across

DOWN

2. 16-Across minus the number in the starred box
3. Three times the number in the starred box
4. 25-Down minus 1-Across
5. One-third of 29-Across
7. 29-Across plus 5-Down
9. 2-Down times 3-Down
10. Consecutive digits, in some order
11. 2-Down plus 23-Down
12. Digits of 17-Across, rearranged
13. 18-Across plus 23-Down
14. 13-Down plus 22-Down
15. Twice 17-Across
20. 13-Down times the number in the starred box
22. Square of 3-Down
23. 3-Down times the number in the starred box
24. 20-Down divided by 3-Down
25. 18-Across minus 16-Across
26. 10-Down divided by the number in the starred box



Solution is on page 58

THE LIFE OF WILEY

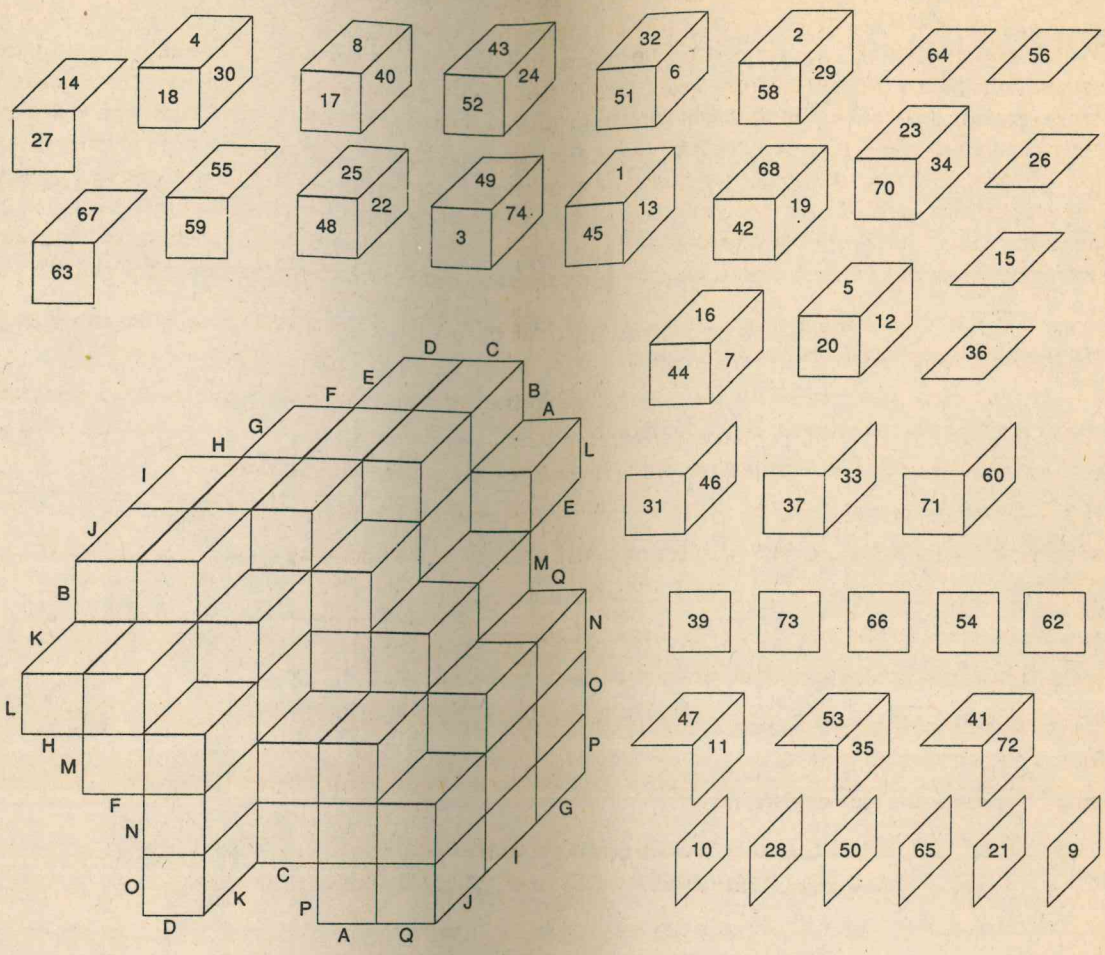
Kay Wiley was a remarkable lady of the nineteenth century. In a time when a woman doctor was an anomaly, Kay became her city's leading general practitioner. The life of Wiley could be broken down this way: First, she spent 1/4 of her life at home with her parents. Then she went away to college for eight years. Two years after completing school, she married a lawyer, and two years after that she gave birth to a daughter named Leah. Kay's lifespan was 8/9 that of her daughter, who died 36 years after Kay died. From this mini-biography, can you determine how many years Dr. Kay Wiley lived?

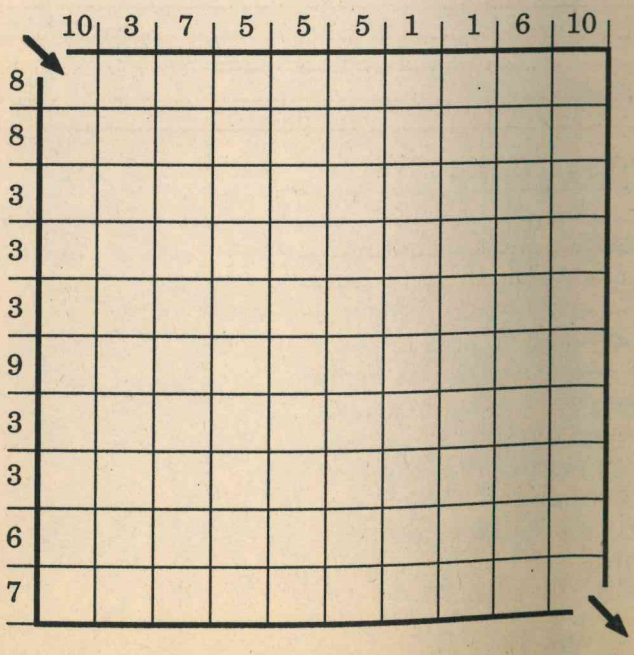
Solution is on page 59

ON THE SURFACE 4

Here's a jumbo On the Surface made especially for this magazine. See page 27 if you need directions. WARNING: This one's a toughie! **Solution is on page 58.**

TARGET NUMBER: 300





MATH MAZE 3

See page 15 if you need directions for this Math Maze. **Solution is on page 58.**

LOGIC PROBLEM

12. JEWELL, A JEWEL OF A JEWELRY-STORE WORKER

by MARY POWELL

Jim Jewell, who is in his junior year at Addasum University, recently went to work part-time in the jewelry store owned by his Uncle Ted, a notorious prankster. During his first afternoon at the store, Jim prepared a delivery for Pearl, another for Crystal, and three others for women whose names are the same as gemstones. The coincidence mushroomed when Jim noticed that all five deliveries were being sent to the same sorority house! Jim, certain his uncle was playing one of his famous jokes, confronted him, yet Ted pleaded innocence and ignorance. It wasn't until the next day that Jim discovered why. In his first class, a woman named Ruby was showing off a piece of jewelry that her parents sent her as a birthday gift. "It was the most extraordinary thing," she laughed, "but the four others in my sorority house who have gemstones for names also received jewelry yesterday, and from the same store, too! And to top it off, none of the five received stones that match her first name." From the clues below, can you determine the full name of each woman, the piece of jewelry she received (one got a pin), the stones it contained, and the color of the box it arrived in?

1. Ms. Stone's gift contains stones that match Ms. Rivers' first name; Ms. Stone's first name is the same as the stones in the ring, which wasn't delivered to Ms. Rivers.
2. Ms. Green's first name matches the stones that arrived in the red box; Ms. Green's gift contains stones that match the first name of the person who received the blue box.
3. Neither Crystal's piece nor the crystal piece is the bracelet or the gift sent to Ms. Rivers.
4. Neither Ms. Green (who didn't get the green box) nor Opal received the ring.
5. The necklace isn't Ruby's piece or the ruby piece, which was not sent in the gray box.
6. The earrings contain stones that match Ms. Field's first name.
7. The necklace contains stones that match Ms. Cutter's first name.
8. Neither the black box nor the gray box contained pearls or opals.
9. Sapphire is not Ms. Cutter.
10. Ms. Stone didn't receive sapphires.
11. No woman has the same first and last initials.

Solution is on page 61.

See page 7 for directions on how to use the solving chart.

	Cutter	Field	Green	Rivers	Stone	crys.	opal	pearl	ruby	sapp.	brac.	ear.	neck.	pin	ring	black	blue	gray	green	red
Crystal																				
Opal																				
Pearl																				
Ruby																				
Sapphire																				
black																				
blue																				
gray																				
green																				
red																				
bracelet																				
earrings																				
necklace																				
pin																				
ring																				
crystal																				
opal																				
pearl																				
ruby																				
sapphire																				

CROSSMATH

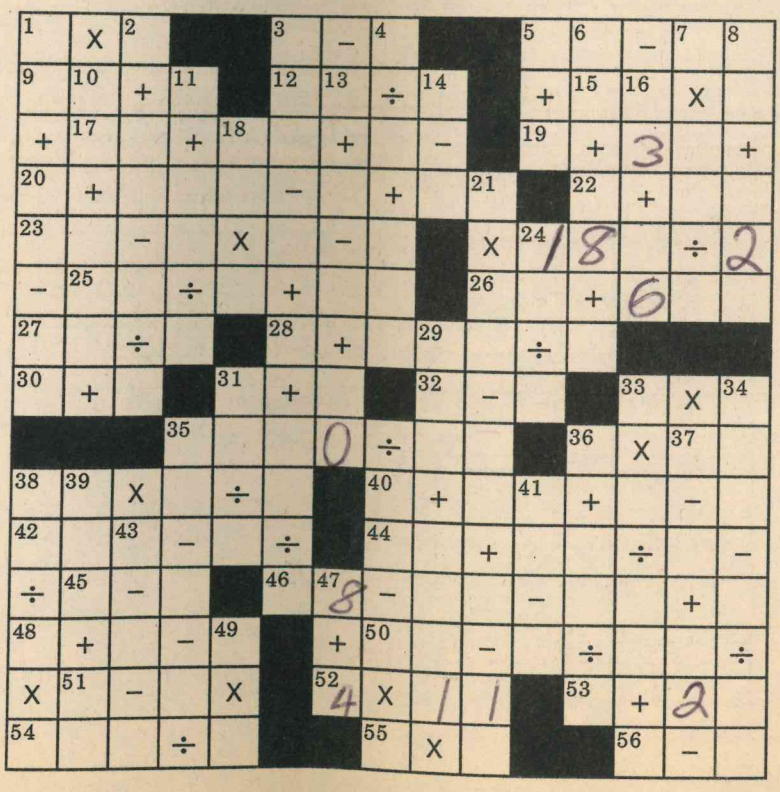
This looks like a crossword puzzle, but it involves numbers, not words. The numbers given in the clues columns are the answers to simple arithmetic problems; the numbers you enter into the diagram will form the problems which result in those answers. All the arithmetic symbols (+, −, x, ÷) have already been entered in their appropriate squares in the diagram. Use the symbols, the crossing numbers, and a bit of logic to determine the digit to enter in each blank square (one digit per square). An important thing to remember: the arithmetic is to be done in the order in which it reads, from left to right or top to bottom — for example, 1 + 2 x 3 equals 9 (1 + 2 = 3; 3 x 3 = 9). If done in any other order, your solution won't work. Arithmetic signs at the beginning or end of a problem (as in 17-Across) should be ignored. You will never use zero as the first digit of a number, though there may be zeroes used as later digits. There are no negative numbers used here, nor are there any fractions used. If you need help getting started, you'll find the correct entry for 36-Across on page 63. **Solution is on page 58.**

ACROSS

1. 18
3. 2
5. 17
9. 64
12. 4
15. 48
17. 58
19. 45
20. 788
22. 53
23. 262
24. 91
25. 63
26. 674
27. 3
28. 123
30. 8
31. 9
32. 4
33. 42
35. 20
36. 588
38. 52
40. 19
42. 126
44. 5
45. 3
46. 32
48. 1
50. 4
51. 2
52. 44
53. 31
54. 123
55. 20
56. 6

DOWN

1. 184
2. 4
3. 140
4. 208
5. 16
6. 98
7. 196
8. 632
10. 327
11. 11
13. 29
14. 6
16. 139
18. 252
21. 3
24. 21
29. 1287
31. 9
33. 10
34. 20
35. 13
36. 6
37. 63
38. 56
39. 691
40. 20
41. 65
43. 1
47. 12
49. 28



LOGIC PROBLEM

by MARY MARKS CEZUS

13. TIME TO VEG OUT!

Five friends who have hectic daily schedules were recently visited by a travelling salesman. Although he was quite pushy and his wares were a tad on the unusual side, each of the busy women surrendered and bought an item, mostly just to get rid of him as fast as she could. In their haste, however, their judgment definitely suffered — after comparing notes, they found that each had purchased a timer shaped like a different vegetable! Yikes! Stuck with their odd acquisitions, they decided to make the most of a bad situation. Since they all take a break from work once a day to relax, the timers are often used to remind them when their rest periods are over. For example, yesterday, each set her timer for a different length (either 20, 26, 35, 49, or 58 minutes), and each chose a different leisure activity. From the clues below, can you determine each friend's first name, her timer's shape, her activity, and the length of her break?

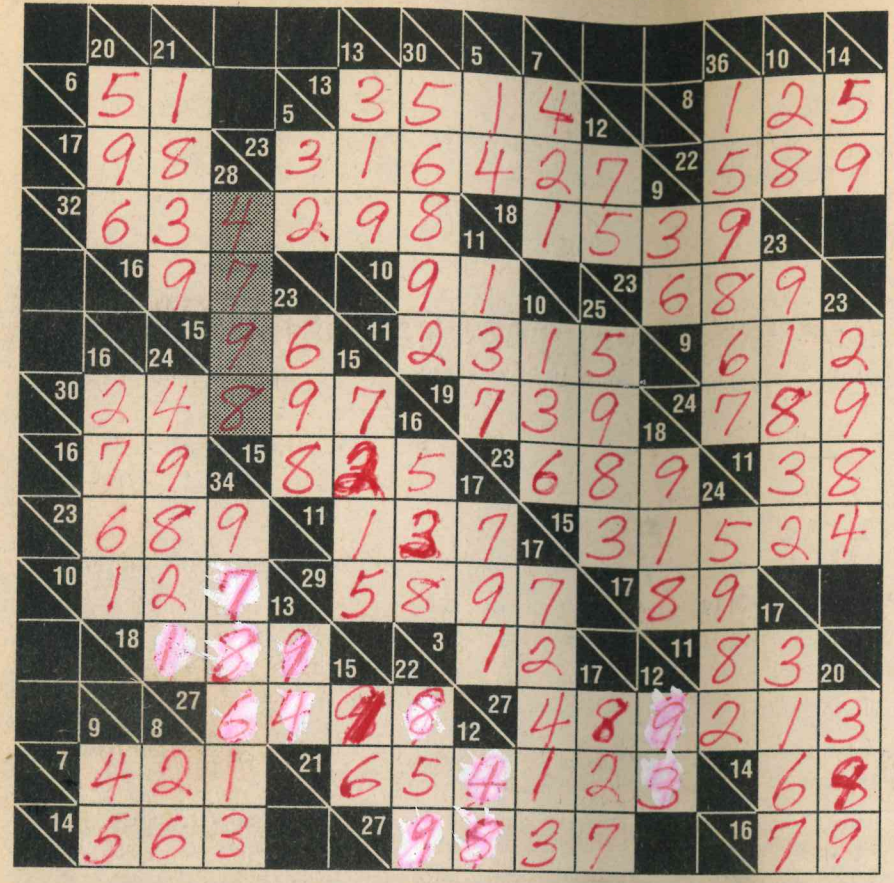
1. Leigh set her timer for a longer period than the piano player (who is not the one who used the pepper-shaped timer).
2. The squash-shaped timer was used by neither Jodi nor Estelle, who set her timer for a longer period than the woman who solved puzzles.
3. Clarice neither napped nor played the piano.
4. The total of the time set on Peg's timer plus the time set on the squash-shaped timer was less than the amount of time on the timer set by the woman who did embroidery.
5. Jodi's timer (which wasn't set for 35 minutes) was not shaped like a tomato (which was not the shape of the timer belonging to the woman who played the piano).
6. The person who used the pepper-shaped timer neither read nor took a nap.
7. The woman who used the radish-shaped timer set her timer for a longer period than the time set by Clarice, who set her timer for a longer period than the time set on the tomato-shaped timer.
8. Jodi (who did not embroider) set her timer for a shorter time than the amount set on the turnip-shaped timer.

Solution is on page 62.

See page 7 for directions on how to use the solving chart.

	pepper	radish	squash	tomato	turnip	20	26	35	49	58	emb.	nap	piano	puz.	read
Clarice															
Estelle															
Jodi															
Leigh															
Peg															
embroidery															
nap															
piano															
puzzles															
read															
20															
26															
35															
49															
58															

CROSS SUMS



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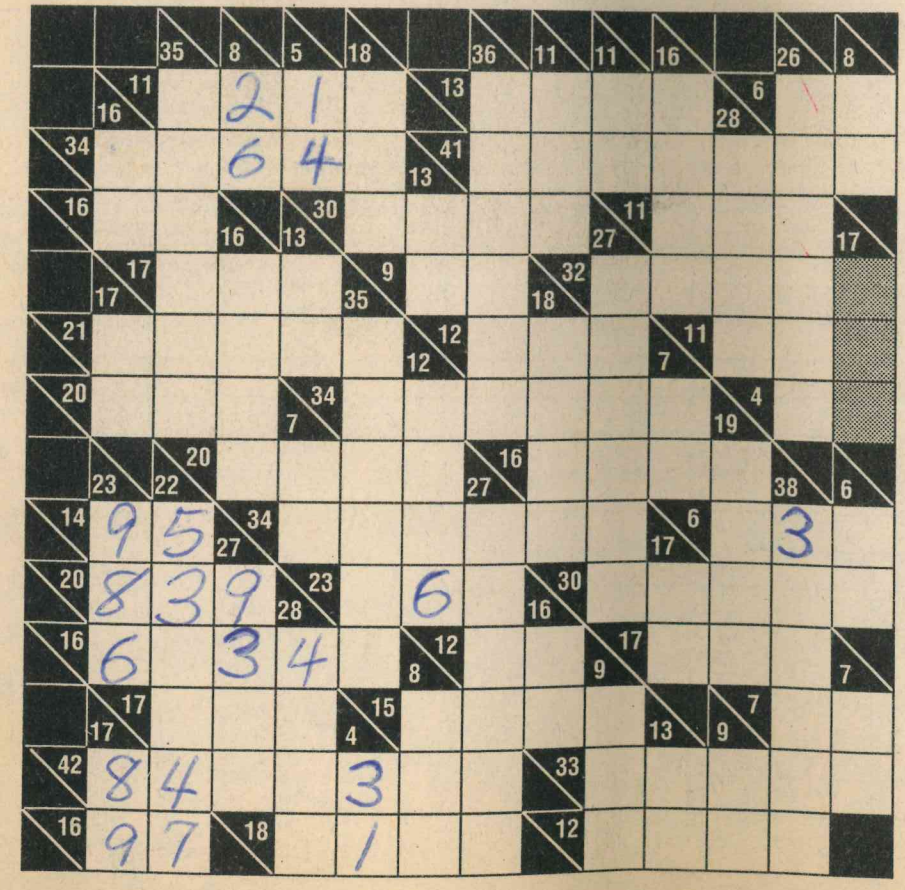
NUMBER 17

Directions for solving are on page 8. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

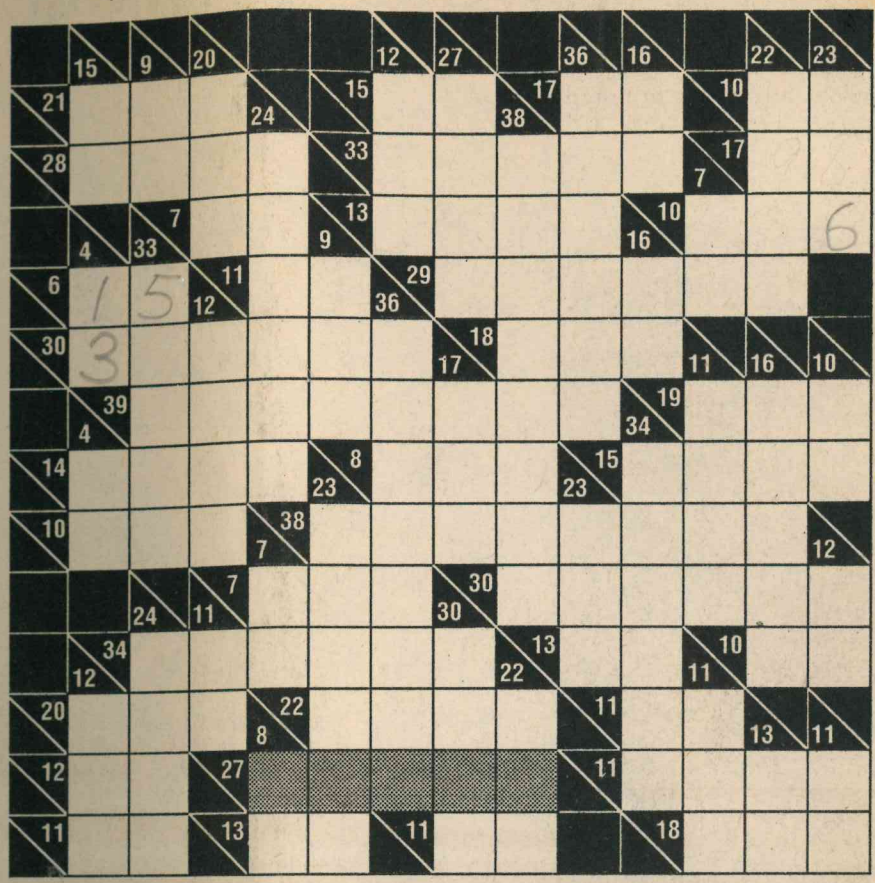
Solutions are on page 57.



NUMBER 18

CROSS SUMS

NUMBER 19



Solutions are on page 57.

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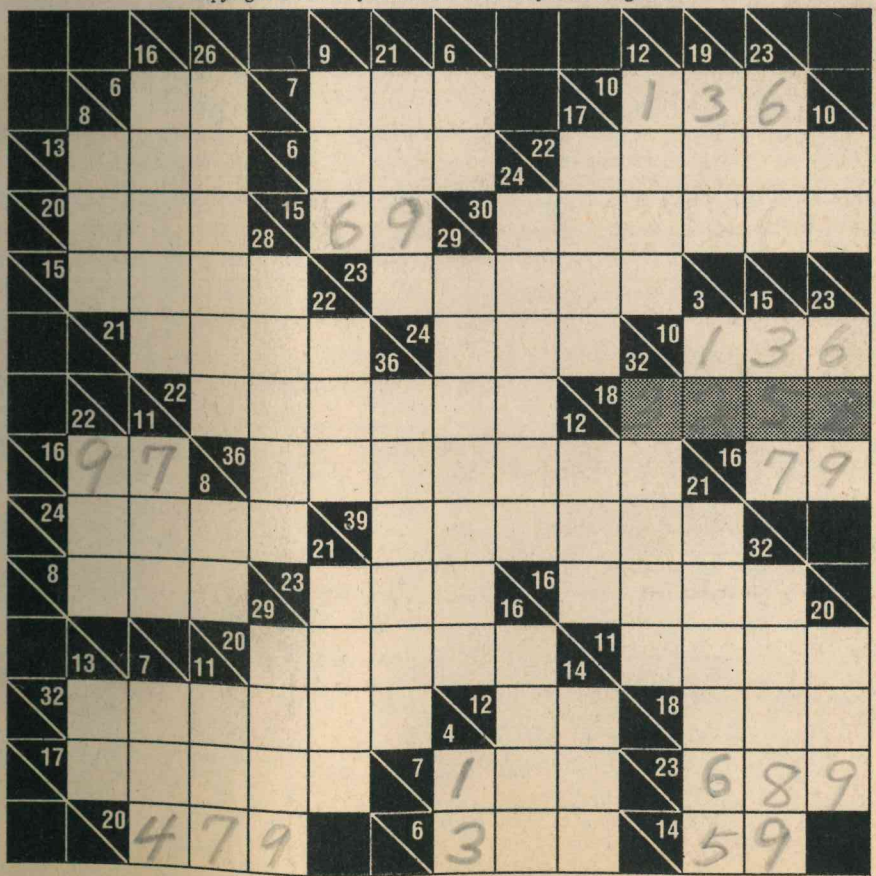
NUMBER 20



WORD ARITHMETIC

Directions for solving are on page 10.

Solutions are on page 63.

37.

0 1 2 3 4 5 6 7 8 9

```
        A C T
    ------------
A C T | B O N N E T
        O T R B
        -------
          B K T E
          B B S N
          -------
            R S E T
            R K K A
            -------
              R O A
```

38.

0 1 2 3 4 5 6 7 8 9

```
        O F F
    ------------
A T E | E A R T H
        A T E
        -------
          T U N T
          T O C A
          -------
            T A R H
            T O C A
            -------
              R N F
```

39.

0 1 2 3 4 5 6 7 8 9

```
          M A
    ------------
F O A L | S O L A R
          O A G R
          -------
          M M F O R
          U R O O G
          -------
            F V G R
```

40.

0 1 2 3 4 5 6 7 8 9

```
        M I
    ------------
F A | F O A M
        E E L
        -------
          U U M
          U Q U
          -------
            P E
```

41.

0 1 2 3 4 5 6 7 8 9

```
        A F T
    ------------
B I D | T O O T H
        B I D
        -------
          Y R O T
          Y Y F D
          -------
            F H T H
            F F T D
            -------
              B D H
```

42.

0 1 2 3 4 5 6 7 8 9

```
          H I E
    ------------
G A G | C L E A R
          C I L
          -------
            P H A
            G A G
            -------
            G L P R
            G T T C
            -------
              G R G
```

43.

0 1 2 3 4 5 6 7 8 9

```
        D O
    ------------
N I L | A N T I C
        A L R I
        -------
          R D T C
          R L D O
          -------
            O R P
```

44.

0 1 2 3 4 5 6 7 8 9

```
        A N
    ------------
D O N | S I E V E
        S A D T
        -------
          W W V E
          W T I N
          -------
            W O A
```

45.

0 1 2 3 4 5 6 7 8 9

```
          R E
    ------------
R I S K | P R I D E S
          P D N S I
          -------
            U S N S S
            U Y U Y R
            -------
              K U Y I
```

LOGIC PROBLEM
CHALLENGER

14. HOMEWARD BOUND

by ROBERT NELSON

The sleepy little village of Ewnsburgh has twelve east-to-west (E-W) streets and eleven north-to-south (N-S) streets. Every Friday evening in summer, Olson and some of the other men in the village get together to play a rousing game of baseball. The two teams, strangely enough, consist of one man from each street in town, with the men living on the E-W streets playing against those living on the N-S streets. Question: After they hit home runs, where do they run home to? — ah, there's the rub, because from the clues below, you are to identify the street each player lives on.

1. Half of the streets named for trees (Aspen, Birch, Cherry, Dogwood, Oak, and Pine) run E-W and half run N-S. The same is true of the streets named for Presidents (Adams, Jefferson, Lincoln, Roosevelt, Truman, and Washington) and those named for flowers (Aster, Carnation, Daisy, Phlox, Rose, and Tulip).
2. None of the men lives on a street whose name starts with the same letter as his last name.
3. One team's nine starting (nonsubstitute) players are Allen, Cole (who doesn't live on Phlox Street), Inman (who doesn't live on Birch), the men from Cherry, Roosevelt, and Tulip Streets, and its three outfielders. The other team's are Drake, Nance, Vance, the men from Oak, Lincoln, and Pointer Streets, and its three outfielders.
4. The last names of the players who live on Aspen, Beagle, Carnation, and Dogwood Streets (in that order) are also in sequential alphabetical order.
5. Plank and the man who resides on Daisy Street are the two starting shortstops. During the last game of 1993, Plank was replaced by Wing and the man from Daisy was replaced by Usher.
6. Lord, Tolman, and the man who lives on Phlox Street are on the same team.
7. Baker, Edwards, and King (the starting outfielders for the N-S team) do not live on streets named for Presidents. Horn, Mann, and Sage (the starting outfielders for the E-W team) do not live on streets named for trees. Neither Queen nor Ring, who are on the same team, live on a street named for a dog.
8. Drake and Edwards live on streets whose names start with the same letter. Queen and Sage also live on such streets, as do Cole and Fink.
9. The five substitutes are Gill and the men from four of the five streets named for dogs (Beagle, Pointer, Setter, Spaniel, and Terrier). During the last game of 1993, Gill replaced Jones at second base, and his teammate from Setter Street replaced Vance at shortstop. The other three substitutes were on the opposing team.
10. Horn lives on neither Phlox nor Washington Street.

Solution is on page 62.

Use the space below for solving.

FIGURE LOGIC 10

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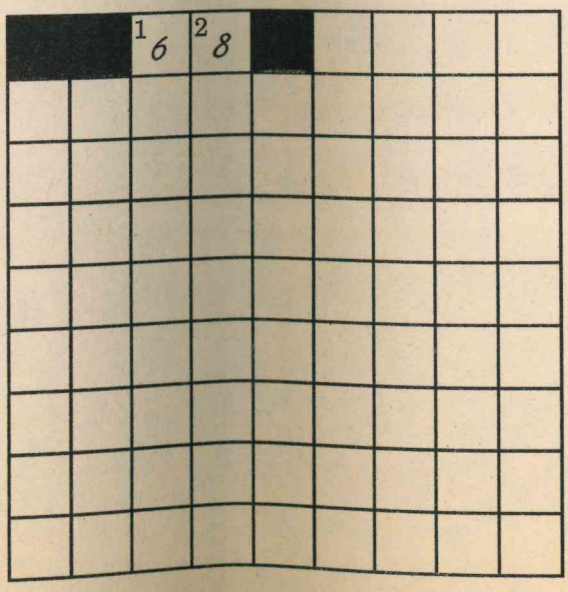
Directions for solving Figure Logics are on page 11. This puzzle is a diagramless, so you will have to enter the black squares as well as the numbers into the diagram as you solve. Remember that the diagram is symmetrical from the top-left corner to the bottom-right corner; therefore, when you decide the location of one black square, you can enter its counterpart. Note that this puzzle has been started for you.

ACROSS

1. One-third of 24-Across
3. Three times 27-Across
5. Digits of 9-Across, reversed
6. Three times 16-Down
8. 5-Down minus 24-Across
9. Number consisting of three different odd digits
11. Digits of 13-Across, rearranged
13. Square of 1-Across
14. Its last digit equals the sum of its first two digits
15. Square of 2-Down
18. Digits of 19-Down, rearranged
22. 24-Across plus 16-Down
23. Its last digit equals the sum of its first two digits
24. 23-Across minus 20-Down
26. 5-Down plus 13-Down
27. One-fifth of 2-Down
28. Three more than 8-Down

DOWN

1. Digits of 17-Down, rearranged
2. Digits of 3-Down, reversed
3. 15-Down minus 8-Down
4. Square of 10-Down
5. Its center digit equals the sum of its first and last digits
7. Three times 24-Across
8. 27-Across minus the first digit of 27-Across
10. Twice 27-Across
12. 2-Down times the last digit of 2-Down
13. Its last digit equals the sum of its first two digits
15. Last two digits of 5-Down, in order
16. 27-Across times 8-Down
17. Square of 3-Across
19. Three times 9-Across
20. 27-Across times 28-Across
21. Three times 28-Across
25. Digits of 15-Down, reversed
26. 10-Down plus 25-Down



Solution is on page 58

LOGIC PROBLEM
CHALLENGER

15. PENNSYLVANIA SMITH RETURNS

by DAVID CHAMPLIN

Interplanetary explorer and archeologist Pennsylvania Smith has noted that most civilizations, no matter how far spread apart throughout the galaxy they may be, tend to do three things: they create artifacts, they beautify those artifacts with gemstones, and they take steps to prevent theft of the artifacts. Smith came to this conclusion after completing his most recent mission, during which he spent one week on Ozara and on each of five other planets. (He was able to study the six vanished civilizations in six weeks because of the warp-drive on his spaceship, which makes travel time between stars practically negligible.) On each now-deserted world, Smith discovered a gem-studded relic which he decided to take to the Intergalactic Museum for display. In order to obtain each priceless artifact, though, he had to pass through a different defense system, millenia-old but still functional...and dangerous! If that wasn't enough, Smith then had to defend his find against a different space pirate who was ready to snatch the newly rediscovered treasure away. Fortunately, the archeologist was always successful in defeating these would-be robbers, and he managed to return to the museum with all of his precious relics intact. From the clues below, can you determine the order in which Smith visited the six planets, the artifact found on each, the jewel used to decorate the artifact (one was studded with opals), the defense system he circumvented to snare the artifact, and the villain who tried to steal the artifact?

1. Smith acquired the artifact on the planet Mapola a week before he found the pearl-encrusted relic, which he found the week before he discovered the object Earl Evil tried to grab. He attained the artifact protected by robot guards at least two weeks before he got the sword. Note: five different artifacts are mentioned in this clue.
2. Our hero tangled with Wilbur Wicked a week before he visited the planet Nikibi. He discovered the crown one week before he found the object protected by death rays, which he picked up sometime before the ruby-encrusted treasure. Note: These events took place during five different weeks.
3. The six relics Smith brought back to the museum were the mask, the one from the planet Phylo, the one set with emeralds, the one protected by lightning generators, the one Selina Stealer tried to take, and the last one acquired.
4. The explorer outwitted Roger Robbit one week before he attained the artifact protected by poison-gas jets, which he got before (but not the week before) the object found on the planet Lunurnu. He safely got away with the diamond-encrusted object sometime before he attained the goblet. Note: These events took place during five different weeks.
5. Smith visited the following four planets consecutively and in this order: the one where he found the object set with sapphires, Kryxtal, the one where he uncovered a ceremonial bowl, and the one where he had to jump across a quicksand patch to pocket an artifact (which wasn't the planet where he tangled with Bette Badd).
6. Earl Evil didn't try to filch the goblet.
7. The archeologist spotted the urn at least two weeks before his bout with Greta Greedy, which took place sometime before he extracted a relic from a booby-trapped maze.
8. Bette Badd, who wasn't after the ruby-encrusted artifact, encountered Smith exactly one week after one of the three male thieves.

Solution is on page 63.

Use the space below for solving.

FIGURE LOGIC 11

by LINDA THISTLE

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Directions for solving Figure Logics are on page 11. Starting hint is on page 63.

Anne Atwell, Bill Banik, and Chris Cook ran for mayor in Weetown last November. After all the ballots were counted, local political analysts noted that votes cast for Cook in the first ward equalled only one-ninth of total votes cast in that ward. They also observed that Banik won eight times as many votes in the first ward as he did in the fourth, and that votes cast for Atwell in the fourth ward equalled three times those for Banik in the fourth. Working back and forth between the scoreboard and the puzzle below, can you determine who won the election?

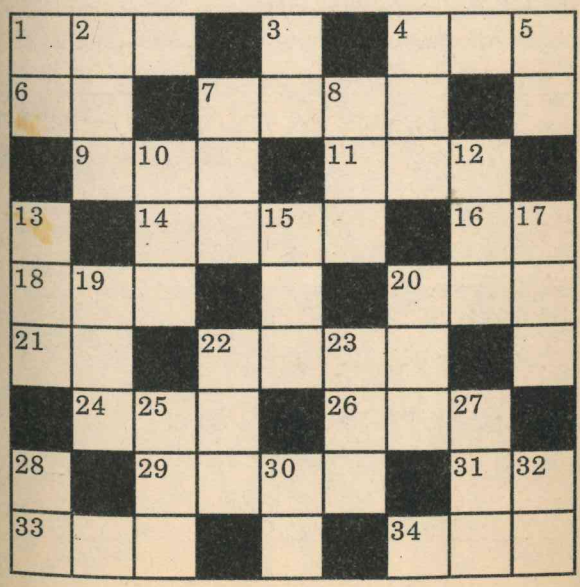
ACROSS

1. Votes for Cook in the third ward
4. Difference between votes for Banik in the first and second wards
6. One-tenth of votes for Atwell in the fourth ward
7. Total votes for Atwell
9. Difference between votes for Banik in the first ward and total votes cast in the third
11. Votes for Cook in the fourth ward
14. Total votes for Banik
16. Difference between votes for Atwell in the second ward and votes for Banik in the third
18. Difference between votes for Banik in the fourth ward and votes for Cook in the third
20. Votes for Cook in the first ward
21. One-third of votes for Banik in the second ward
22. Total votes cast
24. Votes for Cook in the second ward
26. Votes for Banik in the third ward
29. Total votes for Cook
31. Difference between votes for Banik in the first ward and votes for Cook in the second
33. Sum of votes for Banik in the first ward and votes for Cook in the third
34. Votes for Banik in the second ward

DOWN

1. One less than the difference between votes for Atwell in the fourth ward and votes for Cook in the third
2. Total votes cast in the fourth ward
3. Difference between votes for Banik in the second ward and votes for Cook in the third
4. Sum of votes for Banik in second and fourth wards
5. Votes for Banik in the fourth ward
7. Votes for Atwell in the fourth ward
8. Total votes cast in the first ward
10. Sum of votes for Atwell in the fourth ward and votes for Cook in the second
12. Difference between votes for Atwell in the second ward and votes for Cook in the fourth
13. Two times votes for Cook in the first ward
15. Total votes cast in the third ward
17. Votes for Banik in the first ward
19. Votes for Atwell in the first ward
20. One-third of votes for Cook in the second ward
22. Votes for Atwell in the second ward
23. Votes against Atwell in the second ward
25. Difference between votes for Cook in the second and fourth wards
27. Difference between votes for Cook in the first ward and total votes cast in the third
28. Difference between votes for Atwell in the first ward and votes for Banik in the third
30. Difference between votes for Atwell in the fourth ward and votes for Cook in the first
32. Difference between votes for Cook in the first and third wards

	first ward	second ward	third ward	fourth ward	TOTAL
Anne Atwell					
Bill Banik					
Chris Cook					
TOTAL					



Solution is on page 58

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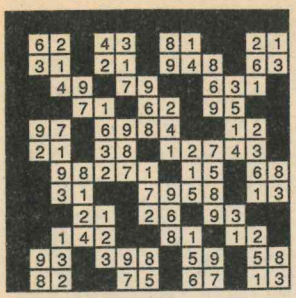
CROSS SUMS 1



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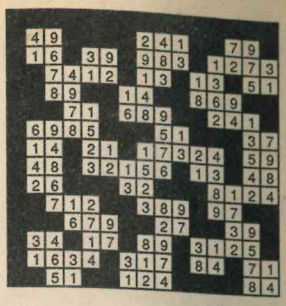
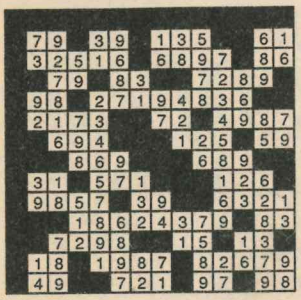


CROSS SUMS 3



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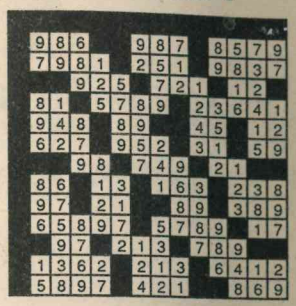

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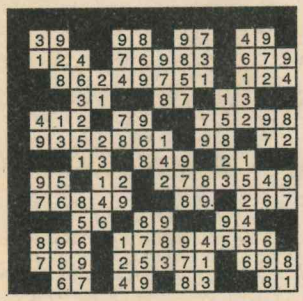

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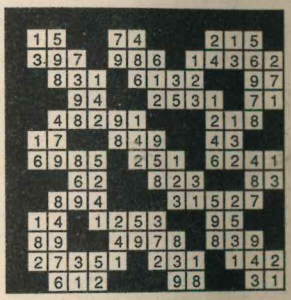

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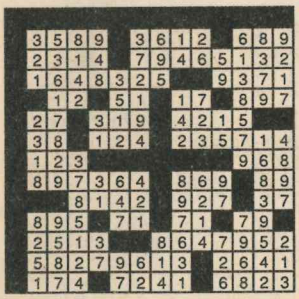

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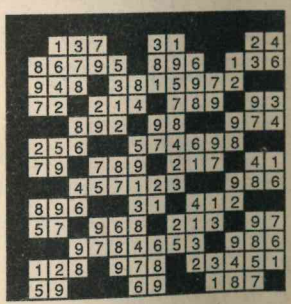

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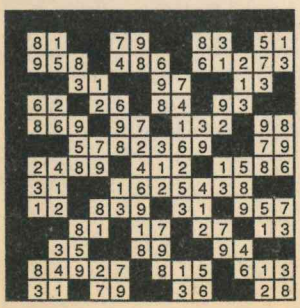

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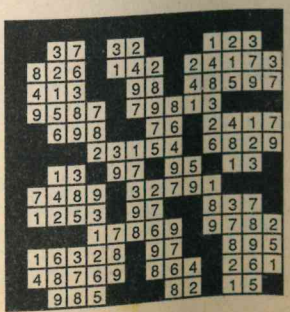

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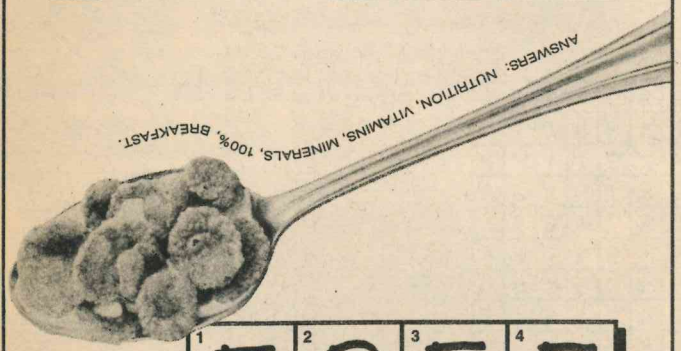
2. *Kellogg's® Product 19®* cereal provides you with these. V TA INS
3. *Kellogg's® Product 19®* cereal provides two of these. INER LS
4. A *Kellogg's® Product 19®* breakfast provides ____% Daily Value of 11 essential nutrients. 0%
5. *Kellogg's® Product 19®* cereal is a fat-free part of a nutritious _____. B E K AST



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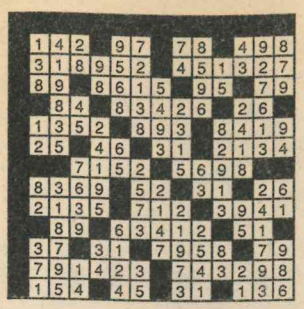
CROSS SUMS 11



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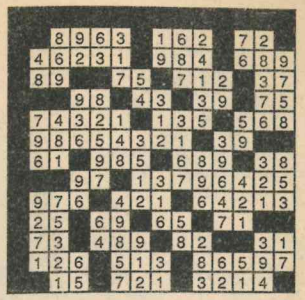

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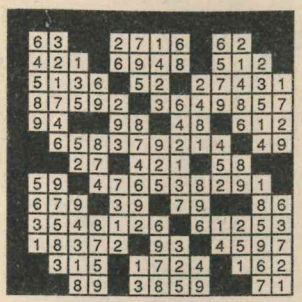

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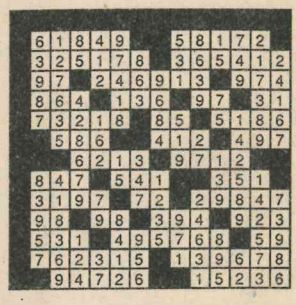

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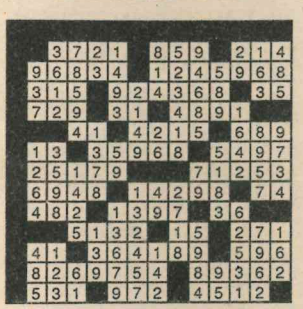

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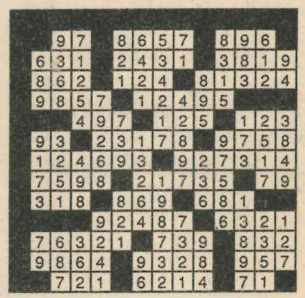

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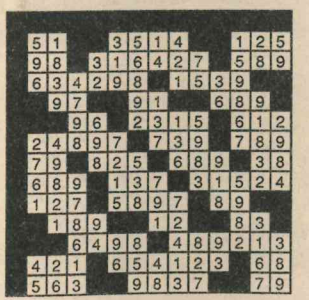

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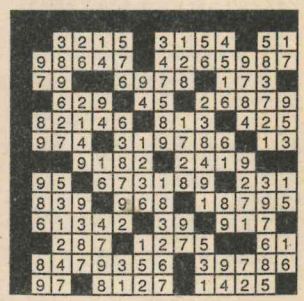

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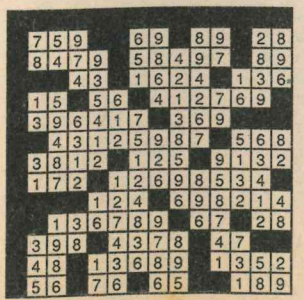

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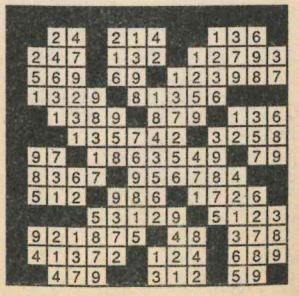
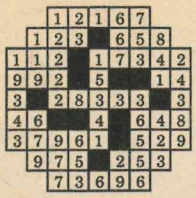


FIGURE LOGIC 1



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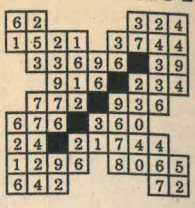

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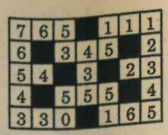

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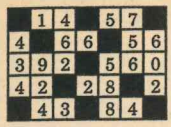

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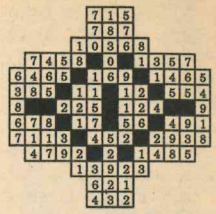

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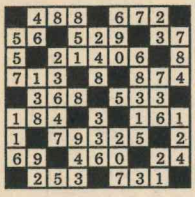
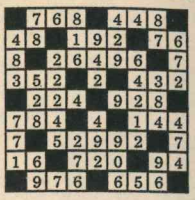


FIGURE LOGIC 7



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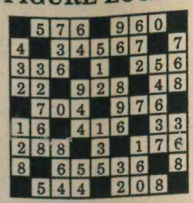

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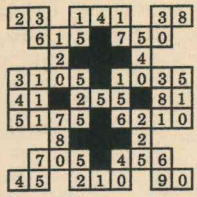

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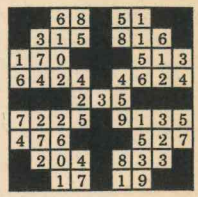

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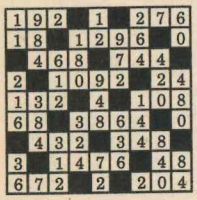
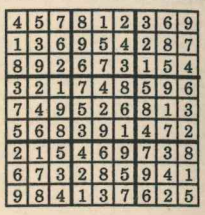


Anne Atwell won.

NUMBER PLACE 1



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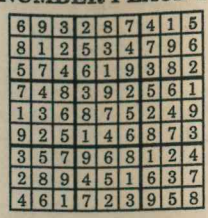

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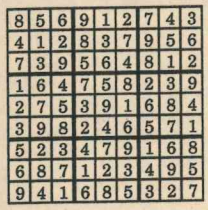
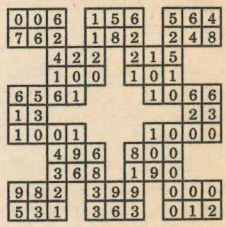
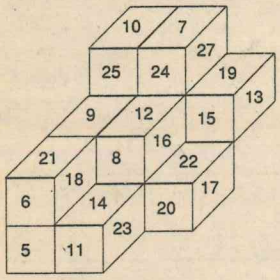


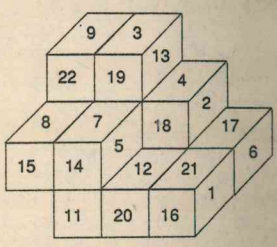
CROSS FIGURE



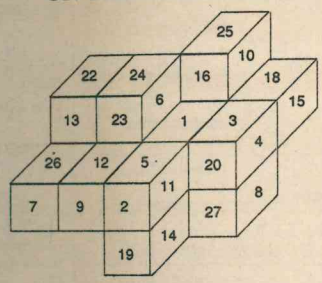
ON THE SURFACE 1



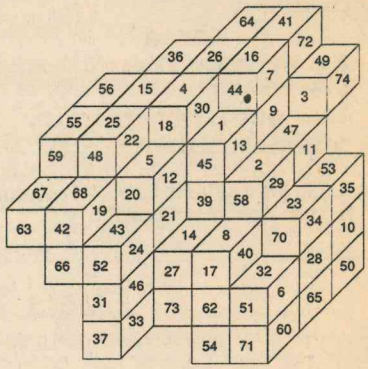
ON THE SURFACE 2



ON THE SURFACE 3



ON THE SURFACE 4



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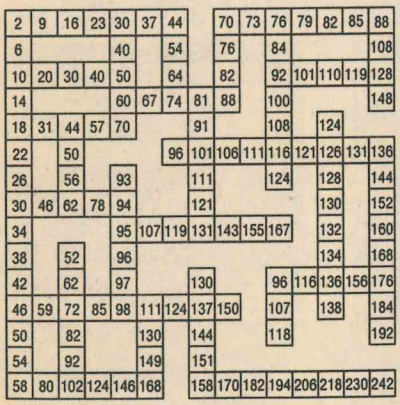
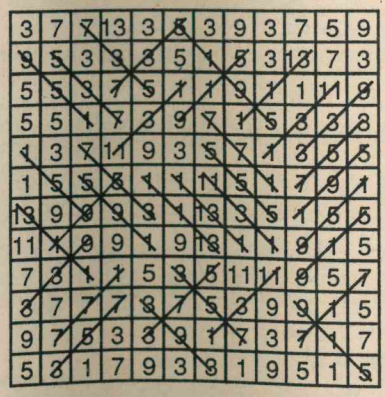
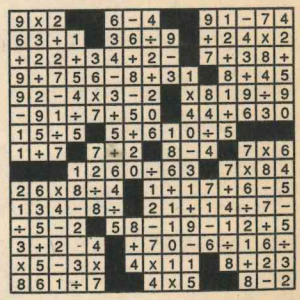


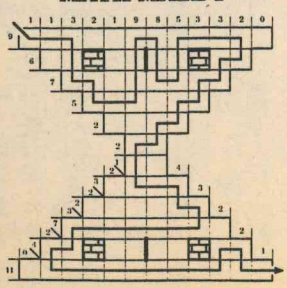
ODD LOTS



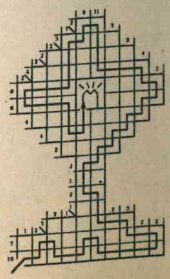
CROSSMATH



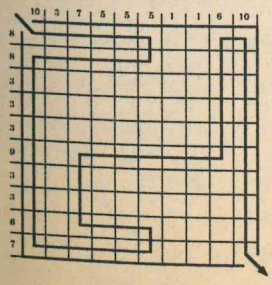
MATH MAZE 1



MATH MAZE 2



MATH MAZE 3



BINGO PLAYS

	B 1-15	I 16-30	N 31-45	G 46-60	O 61-75	
P	8	18	42	47	(63)	P
L	2	19	41	(60)	61	L
A	14	20	FREE	52	73	A
Y	1	(28)	33	50	72	Y
S	(4)	24	40	57	64	S
	B	I	N	G	O	

CRYPTIC MATH

By clue 1, one of the three rows reads 3, 6, 9 or 3, 9, 6 left to right, and a second row reads 2, 4, 8 or 2, 8, 4 left to right. The remaining row, then consists of the numbers 1, 5, and 7 in some order. By clue 1, E is 1, 2, 3, 5, or 7. If E were 1, then by clue 3, J would be 2; this contradicts clue 1, however. Therefore, E isn't 1. Similarly, E isn't 2. If E were 5, then M would be 7 (clue 3), but this also contradicts clue 1. Therefore, E isn't 5. If E were 7, then J would be 8 and M would be 9 (clue 3), contradicting clue 2. Therefore, E isn't 7. E, then, is 3, so J is 4 and M is 5 (clue 3). By clue 1, H is 2 and K is 8. By clue 2, F is 6 and L is 1. By clue 1, G is 9, so by elimination, N is 7. In summary: E = 3, F = 6, G = 9, H = 2, J = 4, K = 8, L = 1, M = 5, and N = 7.

HALF TIME

Areas #3, #5, #7, and #8, because they contain a total of 19 squares, while the gray area contains 23 squares. 19 + 23 = 42, which is half of the diagram's total area of 84 squares.

NUMBER DECATHLON

Event A: 14; Event B: 19 (arranged in order, the rest of the numbers are the series 3, 6, 9, 12, 15, 18, 21, 24, 27); Event C: 12 (* = 24); Event D: 3 (the first number in each row and column divided by the second number equals the third); Event E: 21; Event F: 24; Event G: 9 (6, 18, 27, 15); Event H: 15; Event I: 27; Event J: 18. Winning number: 6.

P.D.Q.

1. 12; 2. $70; 3. 2; 4. 12 cuts; 5. 7; 6. 8 feet; 7. 22488.

QUOTIENT QUOTE

25, 5, 19, 2, 21, 22, 32, 8, 14, 7, 15, 28, 33, 30, 16, 3, 23, 31, 20, 12, 11, 27, 9, 13, 29, 18, 4, 17, 24, 6, 26, 10, 1, 34. "Mathematics is the queen of the sciences."

FUN SETTEE

By clue 8, the person on the left side of Ima wore a beanie and the person on the right side of her used a squirting pen. That person with the squirting pen did not use parchment (clue 2), so he or she used a money pad. He or she didn't wear a beanie (clue 1), and was thus not on the far right end of the couch (clue 4); there was at least one other staffer on the right side of Ima. The person next to Ima with the beanie didn't use a money pad (clue 1); he or she used parchment and disappearing ink (clue 2). By clue 3, that person was not on the far left end of the couch, so there was one more employee on that end; Ima was in the center of the five. The person on the far left had a squirting pen (clue 3) and a money pad (clue 2), but neither a beanie (clue 1) nor a clown nose (clue 3). The person on the far right had a beanie (clue 4), parchment (clue 1), and disappearing ink (clue 2). Neither person with both a beanie and disappearing ink had a clown nose (clue 5). By clue 6, then, Ima and the person on the right side of her, who is Stan, had clown noses. Ima also had a squirting pen (clue 5) and a money pad (clue 2). By clue 7, Warren was the person on the far left without a beanie. Penny was seated between Ima and Warren (clue 8) and, by elimination, Wayne was on the far right. In summary, from left to right:

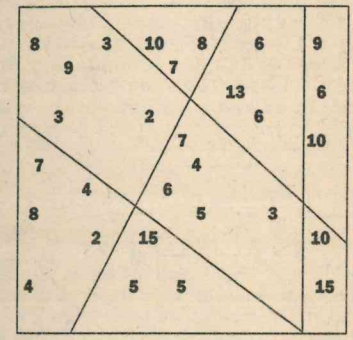
Warren Pease, squirting pen, money pad, neither beanie nor nose
Penny Weiss, disappearing ink, parchment, beanie
Ima Plummer, squirting pen, money pad, clown nose
Stan Doff, squirting pen, money pad, clown nose
Wayne Dwopp, disappearing ink, parchment, beanie

BUY WELL — BUY DELL!

THE LIFE OF WILEY

64 years. Kay's lifespan is 8/9 times Leah's. The number of years Kay lived, then, is evenly divisible by 8, while the number of years Leah lived is evenly divisible by 9. Leah lived 36 years after Kay's death, so Kay's age when Leah was born plus Leah's lifespan equals 36 plus Kay's lifespan. If Kay's lifespan were 56, Leah's would have been 63 according to the 8/9 condition. However, Kay would have been 26 (56/4 + 8 + 2 + 2) at Leah's birth, contradicting the 36-year condition (26 + 63 is less than 36 + 56). Therefore, Kay's lifespan was greater than 56. If it were 72, Leah's would gave been 81 according to the 8/9 condition. However, Kay would have been 30 (72/4 + 8 + 2 + 2) at Leah's birth, contradicting the 36-year condition (30 + 81 is greater than 36 + 72). Therefore, Kay's lifespan was less than 72. It was 64, then, and Leah's was 72. Kay was 28 (64/4 + 8 + 2 + 2) at the birth, agreeing to the 36-year condition (28 + 72 = 36 + 64).

LINES OF SIGHT



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LOGIC PROBLEM 1

The noon customer eats peanuts (clue 1). By clue 2, Nancy isn't the noon customer, and she doesn't eat almonds; she also doesn't eat filberts (clue 3), so she eats walnuts. The customer at 9:00 doesn't eat filberts or walnuts (clue 3); she eats almonds. By clue 2, Nancy is the customer at 10:00, and the one at 11:00 uses Red Light. By elimination, she eats filberts. The noon customer uses Rose Merry (clue 3). By clue 5, Nora is the customer at 11:00, and Nancy uses Pink Pussycat. By elimination, the customer at 9:00 uses Mauve Madness. Nanette doesn't use that shade (clue 4), so Nellie does; Nanette uses Rose Merry. In summary:

9:00, Nellie, Mauve Madness, almonds
10:00, Nancy, Pink Pussycat, walnuts
11:00, Nora, Red Light, filberts
12:00, Nanette, Rose Merry, peanuts

LOGIC PROBLEM 2

By clue 1, the bunny block isn't blue and was either #3 or #4. By clue 4, then, it isn't red either, nor is it yellow (clue 5). The bunny block is green and, by clue 3, had the kitten block below it. By clue 1, then, the M block was #1, the blue block #2, and the bunny block #3. The green block does not have the A or E (clue 3), so it has the N. The A block wasn't #4 (clue 2), so it was #2 and the E, by elimination, was on #4. By clue 4, the red block was #1 and the pig block was #2. By elimination, the turtle block was #1 and the yellow block was #4. Jason, therefore, spelled the word "MANE." In summary, in stacked order:

M, red turtle
A, blue, pig
N, green, bunny
E, yellow, kitten

LOGIC PROBLEM 3

Rick didn't buy the elephant (clue 1), salamander (clue 4), dolphin (clue 6), or whale; he bought the tiger. The tiger's eyes were not diamond (clue 1), sapphire (clue 2), ruby (clue 4), or pearl (clue 7), so they were emerald. The pin with diamond eyes was not the elephant (clue 1), whale (clue 8), or salamander (clue 9); it was the dolphin. Kathy didn't receive the dolphin, elephant, or tiger (clue 1), or salamander (clue 9), so she received the whale. Its eyes were neither sapphire (clue 2) nor ruby (clue 5); they were pearl. The salamander's eyes were not ruby (clue 4), so they were sapphire and the elephant's eyes were ruby. Georgia didn't receive the dolphin (clue 3), or salamander or tiger (clue 6); she received the elephant. By clue 3, Phil didn't buy the dolphin, elephant, or whale, so he bought the salamander. Lloyd bought neither the whale (clue 2) nor the elephant (clue 5); he bought the dolphin. Lloyd's wife is neither Maggie (clue 5) nor Inez (clue 7), so she is Edith. Inez didn't receive the tiger (clue 7); she received the salamander and Maggie received the tiger. Kathy is not married to Norm (clue 9); she is married to Troy and Georgia is married to Norm. In summary:

Lloyd, Edith, dolphin, diamond
Norm, Georgia, elephant, ruby
Phil, Inez, salamander, sapphire
Rick, Maggie, tiger, emerald
Troy, Kathy, whale, pearl

LOGIC PROBLEM 4

The magazine that arrives during the third week isn't read by Novales (clue 1), Oaks (clue 3), or Phong (clue 4), so it is read by Quayle. The magazine that arrives during the fourth week isn't read by Novales (clue 1) or Phong (clue 4); it is read by Oaks. Oaks doesn't read the detective magazine (clue 1), the western magazine (clue 2), or the science-fiction magazine (clue 3); Oaks reads the ghost-story magazine. Oaks isn't Marcia (clue 3) or Kathy (clue 4), so he is one of the boys. Since Phong is also a boy (clue 4), the two girls, Kathy and Marcia, are Novales and Quayle, in some order. By clue 3, Quayle isn't Marcia, so she is Kathy, and Marcia is Novales. John's magazine doesn't arrive during the first or second week (clue 1); it arrives during the fourth. By elimination, Leo is the Phong boy. Kathy Quayle doesn't read the western magazine (clue 2) or the science-fiction magazine (clue 3), so she reads the detective magazine. By clue 1, Marcia Novales's magazine comes during the second week; it is the western magazine (clue 2). By elimination, Leo Phong reads the science-fiction magazine, which arrives during the first week. In summary:

John Oaks, ghost-story, fourth week
Kathy Quayle, detective, third week
Leo Phong, science-fiction, first week
Marcia Novales, western, second week

LOGIC PROBLEM 5

Pam gave Jenny the diary (clue 2). By clue 6, Becky and Meredith gave, in some order, the bracelet and the present in teddy-bear paper. Ginger and Danielle gave, in some order, the troll and the gift with gold ribbon (clue 4). The gift with the gold ribbon wasn't the T-shirt (clue 3); it was the hairbow and was brought by Brubaker (clue 2). By elimination, the gift in the teddy-bear paper was the T-shirt; it had the green ribbon (clue 3). The girl who brought the T-shirt is not Malone (clue 5), Hoban (clue 7), or Quintana (clue 8), so she is Delaney. Delaney isn't Becky (clue 1); she is Meredith, and Becky brought the bracelet. By clue 7, Ginger did not give Jenny the hairbow, so Danielle did. By elimination, Ginger gave the troll. She decorated her gift with a blue ribbon (clue 7), so the diary was in confetti paper (clue 9). It didn't have the red ribbon (clue 3); it had the silver and Pam's last name is Hoban (clue 7). By elimination, Becky's gift had red ribbon and, by clue 3, clown paper. Becky is not Malone (clue 5), so she is Quintana. By elimination, Ginger is Malone; she used balloon paper (clue 5). By elimination, Danielle used the star paper. In summary:

Becky Quintana, bracelet, clown paper, red ribbon
Danielle Brubaker, hairbow, star paper, gold ribbon
Ginger Malone, troll, balloon paper, blue ribbon
Meredith Delaney, T-shirt, teddy-bear paper, green ribbon
Pam Hoban, diary, confetti paper, silver ribbon

LOGIC PROBLEM 6

By clue 6, Chris knows the other three people, so isn't the physical therapist (clue 2), the decorator (clue 3), or the pilot (clue 4); Chris is the farmer. Similarly, Chris isn't the former teacher (clue 1), former travel agent (clue 3), or former nurse (clue 4), so is the former painter. Chris isn't Nash (clue 4), Wentworth (clue 5), or Brecht (clue 6), so is Sorenson. By clue 4, the former nurse isn't Nash, and knows only one other person. The former nurse, then, isn't Brecht (clue 6), so is Wentworth. Wentworth is neither Carmen, who knows at least two others (clue 1), nor Lou (clue 5); Wentworth is Pat. By clue 1, Carmen isn't the former teacher, so Carmen used to be the travel agent and Lou used to be the teacher. Carmen isn't Brecht (clue 6); Carmen is Nash, and Lou is Brecht. Carmen isn't the decorator (clue 3) or the pilot (clue 4), so is the physical therapist. By clue 4, Pat isn't the pilot; Pat is the decorator. By elimination, Lou is the pilot. In summary:

Lou Brecht, former teacher, pilot
Carmen Nash, former travel agent, physical therapist
Chris Sorenson, former painter, farmer
Pat Wentworth, former nurse, decorator

LOGIC PROBLEM 7

Boys held the first G and the last O (clue 1), while girls held the first O and the last G (clue 3). By clue 4, girls held the asterisks. Andrew held the A (clue 6). By clue 5, Ann sat somewhere right of Andrew and somewhere left of Amy, who didn't hold an asterisk. No two of those three sat next to each other (clue 8), so Amy held the last G and Ann either the D or the S. By clue 2, there were at least two boys somewhere to the left of Pam, so she held the last asterisk; Nora, then, held the first (clue 4). By elimination, Sue is the girl who held the first O. The boy who held the first G is not Peter or Paul (clue 2), Nathan (clue 7), or Sam (clue 8), so he is Nick. The boy who held the last O is not Peter or Paul (clue 2) or Nathan (clue 7); he is Sam. The C was held by neither Peter (clue 2) nor Nathan (clue 8), so Paul held it. By clue 7, Ann held the D. Peter didn't hold the S (clue 8); he held the R and Nathan held the S. In sum:

G: Nick
O: Sue
*: Nora
C: Paul
A: Andrew
R: Peter
D: Ann
S: Nathan
*: Pam
G: Amy
O: Sam

LOGIC PROBLEM 8

By clue 2, one man wore orange pants and a brown tie; by clue 3, another wore a red tie, blue coat, orange shirt, and brown pants. A third wore red pants and a blue tie (clue 6). By elimination, the fourth man wore an orange tie and blue pants. The man who wore the blue coat, orange shirt, red tie, and brown pants is the only one who did not wear any of the items mentioned in clue 4, so he is Glen. Since one item of each color was worn, by the colors already determined, the man who wore a blue tie and red pants wore the orange coat and brown shirt, the man who wore the orange tie and blue pants wore the brown coat and red shirt, and the man who wore the brown tie and orange pants wore the red coat and blue shirt. The man who wore the red coat is not Harold (clue 1) or Sam Venturi (clue 2); he is Marvin. Harold did not wear the orange coat (clue 1), so he wore the brown one. By elimination, Sam Venturi wore the orange coat. By clue 2, Marvin's wife was on tour. Harold's wife was neither at the conference (clue 1) nor at the seminar (clue 5); she visited her mother. By clue 6, Harold's last name is Grange. Marvin's wife is not Jenny Peterson (clue 6), so Jenny Peterson is married to Glen. By elimination, Marvin is Mr. Smiley. Harold's wife is neither Patricia (clue 5) nor Shelley (clue 7); she is Gretchen. Patricia is not Marvin's wife (clue 8); she is Sam's, while, by elimination, Shelley is married to Marvin. By clue 5, Patricia was not at the seminar; she was at the conference, and, by elimination, Jenny was at the seminar. In summary, with colors listed coat/shirt/tie/pants:

Marvin and Shelley Smiley, tour, red/blue/brown/orange
Glen and Jenny Peterson, seminar, blue/orange/red/brown
Sam and Patricia Venturi, conference, orange/brown/blue/red
Harold and Gretchen Grange, mother, brown/red/orange/blue

LOGIC PROBLEM 9

Hugh worked for Rita on Thursday (clue 4). By clue 5, then, Carl worked for Judy on Monday, Greg for Rita on Tuesday, and Hugh for Dora on Wednesday. By clue 6, Carl worked for Dora on Tuesday, Bill for Anne on Wednesday, and Paul for Edna on Thursday. Carl didn't work for Rita on Wednesday (clue 3), so he worked for Edna. Since Hugh worked for Rita on Thursday, Carl worked for her on Friday; by elimination, Carl worked for Anne on Thursday. By clue 1, Greg didn't work for Edna on Monday, so he worked for her on Friday. Hugh didn't work for Anne on Tuesday (clue 2), so Paul did. Since Bill worked for Anne on Wednesday and Carl did on Thursday, Greg worked for her on Monday. He worked for Dora, then, on Thursday; by elimination, he worked for Judy on Wednesday and Bill worked for Judy on Thursday. Also by elimination, Paul worked for Rita on Wednesday. Bill, then, worked for Rita on Monday. Greg, Paul, Bill, and Carl worked for Anne Monday through Thursday, so Hugh worked for her on Friday. Since Carl worked for Judy on Monday, Hugh worked for her on Tuesday. By elimination, he worked for Edna on Monday and Bill worked for Edna on Tuesday. Also by elimination, Paul worked for Dora on Monday. On Friday, then, Bill worked for Dora and Paul worked for Judy. In summary, with assignments listed from Monday through Friday:

Bill: Rita, Edna, Anne, Judy, Dora
Carl: Judy, Dora, Edna, Anne, Rita
Greg: Anne, Rita, Judy, Dora, Edna
Hugh: Edna, Judy, Dora, Rita, Anne
Paul: Dora, Anne, Rita, Edna, Judy

LOGIC PROBLEM 10

Three people bought fuchsia (clue 3), and one bought mauve (clue 4). By clue 5, then, all five bought chartreuse, four bought puce, and two bought ecru. The 1-color, patternless paper of clue 2 is chartreuse, and hence the only paper without puce. By clue 1, Chester bought paper with all five colors for his garage, so the only other person who bought ecru is the one whose paper has four colors, all except mauve. By elimination, the 3-color paper has fuchsia, and the 2-color paper does not. By clue 6, the 4-color paper was hung in the living room, Beatrice bought the 3-color paper, and the 2-color paper has elephants. The patternless paper wasn't hung in the bathroom or the bedroom (clue 2), so it was hung in the kitchen. By clue 4, the yucca-patterned paper has three colors, the bathroom's paper has two colors, and Albert's paper has one color. By elimination, the bedroom's paper has three colors. Doris didn't paper the bathroom (clue 7), so she papered the living room; by elimination, Edna papered the bathroom. By clue 7, Doris's paper doesn't have Presidents, so it has equations. By elimination, Chester's paper has Presidents. In summary:

Chester, garage, Presidential portraits, 5 colors: chartreuse, puce, fuchsia, ecru, and mauve
Doris, living room, mathematical equations, 4 colors: chartreuse, puce, fuchsia, and ecru
Beatrice, bedroom, yucca, 3 colors: chartreuse, puce, and fuchsia
Edna, bathroom, stampeding elephants, 2 colors: chartreuse and puce
Albert, kitchen, patternless, 1 color: chartreuse

LOGIC PROBLEM 11

There are seven color combinations: red only; black only; yellow only; red and black; red and yellow; black and yellow; and red, yellow, and black. By clue 9, Philip's client chose all three colors. By clue 10, each client and his or her agent are of the opposite sex. A woman chose black and yellow (clue 5); her agent is not Bruce (clue 2) or Glen (clue 3), so he is Stan. By clue 4, a man chose red and yellow, and his agent isn't Angela. She is also not Deborah (clue 7), so she is clue 1's Wanda Wilson. A man chose black only (clue 6) on Monday (clue 2); since his agent isn't Deborah (clue 7), she is Angela. By clue 2, then, he sells flowers. Also by clue 2, Deborah's client didn't choose red only or yellow only, so he chose red and black. Red only was chosen by Glen's client (clue 3), so yellow only was chosen by Bruce's client. By clue 2, then, Glen is Richards. Angela isn't Mrs. Probst (clue 8); she is Mrs. Marks and Deborah is Mrs. Probst. By clue 5, the jeweler gained one more customer than Stan's client. Stan's client didn't gain 26 customers (clue 3), so the jeweler didn't gain 27. Since, by clue 5, the jeweler gained three fewer than Bob, the jeweler didn't gain 28, 29, or 30. A woman gained 29 (clue 2), so the jeweler didn't gain 26; the jeweler gained 25. Stan's client gained 24, then, and Bob gained 28. By clue 7, John isn't the jeweler, so by clue 6, Gordon is the jeweler and Bob is Mathis. Since Mr. Goodson gained 30 customers (clue 5), he is John; Gordon, by elimination, is Mr. Cocker. By clue 7, John bought ads from Angela on Monday, Bob from Deborah on Tuesday, and Gordon from Wanda on Wednesday. Marsha also bought on Wednesday (clue 1). By clue 5, Glen's client bought on Thursday; she isn't mentioned in clue 1, so the appliance lady and Mr. Warren's client bought black on Friday, and are Philip's and Stan's clients in some order. Marsha, then, is Bruce's client; by clue 2, Lori Benton is Glen's. Bob sells shoes and Philip's client gained 26 customers (clue 3). By clue 2, Lori didn't gain 29, so she gained 27. By elimination, Marsha gained 29; she is Ms. Thayer (clue 9). By clue 4, Carla is Parks, so Helen is Wills. Bruce is Davis (clue 8). Helen didn't choose red (clue 7), so she is Stan's client; Carla, by elimination, is Phil's. By clue 4, Marsha sells baked goods and Stan is Smithson. By elimination, Philip is Warren, so Helen is the appliance lady. Carla doesn't sell furniture (clue 9), so she sells cameras; Lori, then, sells furniture. In summary:

Monday: Angela Marks, John Goodson, black, 30, flowers
Tuesday: Deborah Probst, Bob Mathis, black and red, 28, shoes
Wednesday: Wanda Wilson, Gordon Cocker, yellow and red, 25, jewelry
Wednesday: Bruce Davis, Marsha Thayer, yellow, 29, baked goods
Thursday: Glen Richards, Lori Benton, red, 27, furniture
Friday: Philip Warren, Carla Parks, black, yellow, and red, 26, cameras
Friday: Stan Smithson, Helen Wills, black and yellow, 24, appliances

LOGIC PROBLEM 12

Each woman received a gift with stones that matched another woman's first name. Rivers' first name matches Stone's stones (clue 1); it isn't Crystal (clue 3), Sapphire (clue 10), or Ruby (clue 11), so Rivers is Opal or Pearl. By clue 7, Cutter's first name matches the necklace's stones; it isn't Ruby (clue 5), Sapphire (clue 9), or Crystal (clue 11), so Cutter is also either Opal or Pearl. Green, then, is Crystal, Ruby, or Sapphire. By clue 2, the red box didn't have pearls or opals; by clue 8, neither did the black and gray boxes, so the blue and green boxes had opals and pearls, in some order. Since Stone's first name matches the ring's stones (clue 1), Field's first name matches the earrings' stones (clue 6), and Cutter's first name matches the necklace's stones (clue 7). Green's and Rivers' first names match the bracelet's and pin's stones, in some order. By clue 1, then, Stone received either the bracelet or the pin and by clue 2, the red box contained the other. Green's box wasn't red or blue (clue 2), or green (clue 4), so she didn't get the bracelet or pin, or the ring (clue 4). Green, then, got the black or gray box. The necklace has opals or pearls (clue 7), so, by clue 8, Green didn't get the necklace; she got the earrings. Green's stones match the first name of the woman who received the blue box (clue 2), so that woman is Field (clue 6); she got either opals or pearls. By clue 1, Stone got either opals or pearls, too, so she got the green box. We've proven that Stone got the bracelet or the pin, so Field got the necklace. By clue 1, neither Stone nor Rivers got the ring; Cutter did. Cutter isn't Opal (clue 4), so she is Pearl; by elimination, Opal is Rivers. By clue 3, Rivers didn't receive the bracelet, so she got the pin and Stone got the bracelet. Stone isn't Crystal (clue 3) or Sapphire (clue 11); she is Ruby. By clue 1, Stone's gift has opals and Cutter's has rubies, so Field's has pearls. Rivers' gift doesn't have crystals (clue 3); it has sapphires, and Green's has crystals. By clue 6, then, Crystal is Field, so Sapphire is Green. Sapphires were in the red box (clue 2), but rubies weren't in the gray one (clue 5); crystals were. By elimination, rubies were in the black box. In summary:

Crystal Field, pearl necklace, blue
Opal Rivers, sapphire pin, red
Pearl Cutter, ruby ring, black
Ruby Stone, opal bracelet, green
Sapphire Green, crystal earrings, gray

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LOGIC PROBLEM 13

The woman who set her timer for 20 minutes is either Peg or the one who used the squash (clue 4). By clue 2, the squash isn't Estelle's or Jodi's; it is either Leigh's or Clarice's. The timer set for 20 minutes isn't Leigh's (clue 1) or Clarice's (clue 7), so it is Peg's. Jodi's timer wasn't set for 35 (clue 5) or 58 (clue 8). If she set her timer for 26, then the squash's time wouldn't have been 26 (clue 2), 20, 49 or 58 (clue 4); it would have been 35. By clue 4, the embroiderer's time would have been 58. The tomato's time wouldn't have been 26 (clue 5), 49 or 58 (clue 7), so it would have been 20. The 26-minute timer wouldn't have been the radish (clue 7) or the turnip (clue 8); it would have been the pepper. By clue 2, Estelle's time wouldn't have been 35. The piano player's time wouldn't have been 20 (clue 5); by clue 1, it wouldn't have been 26 either, and Leigh's time wouldn't have been 35. Clarice's time, then, would have been 35. She isn't the piano player (clue 3), so the piano player's time would have been 49. This, however, would leave no place for the napper's time, which wouldn't have been 35 (clue 3), 20 or 26 (clue 6). Therefore, Jodi's time wasn't 26; it was 49. By clue 8, the turnip's time was 58. The embroiderer's time was greater than 35 (clue 4) but not 49 (clue 8), so it was 58. The woman who used the pepper didn't play piano (clue 1), nap or read (clue 6); she solved puzzles. By clue 5, the piano player didn't use the tomato, nor is she Leigh (clue 1) or Clarice (clue 3). Peg didn't use the squash (clue 4) or the radish (clue 7); she used either the pepper or tomato, so she isn't the piano player. Either Estelle or Jodi, then, is the piano player. By clue 2, the squash isn't Estelle's or Jody's, so the piano player didn't use the squash; she used the radish. Since the radish's time was greater than 26 (clue 7), Leigh's time was 58 (clue 1). Jodi's timer isn't the pepper (clue 2), squash (clue 4), or tomato (clue 5); it is the radish. By clue 2, Estelle's isn't the pepper or the squash, so it is the tomato. Peg's isn't the squash (clue 4); Clarice's is, and Peg's is the pepper. By clue 3, Clarice didn't nap, so she read and Estelle napped. Clarice's time was 35 and Estelle's was 26 (clue 7). In summary:

Clarice, squash, read, 35 minutes
Estelle, tomato, nap, 26 minutes
Jodi, radish, piano, 49 minutes
Leigh, turnip, embroidery, 58 minutes
Peg, pepper, puzzles, 20 minutes

LOGIC PROBLEM 14

Clue 3 lists nine men from each team. By clue 9, since the N/S team had eleven players and the E/W team had twelve, Gill and the man from Setter Street were the two substitutes for the N/S team, Jones played second base, and Vance played shortstop for the N/S team. We can then identify the team of the men mentioned in clue 3; the first nine mentioned are from the E/W team, and the second nine are from the N/S team. Jones, then, is from Oak, Lincoln, or Pointer Street. Baker, Edwards, and King are the outfielders for the N/S team, while Horn, Mann, and Sage are the outfielders for the E/W team (clue 7). By clue 5, Plank is the shortstop for the E/W team, and lives on Cherry, Roosevelt, or Tulip Street, while Vance is from Daisy Street. Also by clue 5, Wing is one of the substitutes for the E/W team, while Usher is the man from Setter Street. Of the five substitutes, Gill is the only one who does not live on a street named for a dog (clue 9). By clue 7, Queen and Ring are on the same team, and are starting players; neither lives on a street named for a dog. Queen and Sage live on streets with the same initial (clue 8). Only one street name begins with O or L, so Queen is not on the N/S team; he and Ring are on the E/W team, and live on Cherry, Roosevelt, or Tulip Street. Lord and Tolman are on the same team (clue 6) so, by elimination, the two remaining men Fink and Olson are on the same team; two are the substitutes for the E/W team, and two are from Oak, Lincoln, or Pointer Street. If Fink and Olson were the two remaining substitutes for the E/W team who live on streets named for dogs, they and Wing would live, in some order, on Beagle, Spaniel, and Terrier Streets. The initial of the man who lives on Carnation Street immediately follows alphabetically that of the man on Beagle Street (clue 4). Since no man has an initial after W, Wing is not from Beagle Street. Plank, whose initial follows Olson's, does not live on Carnation Street, so Olson is not from Beagle. If Fink were from Beagle Street, Gill would be from Carnation and Horn from Dogwood (clue 4). This, however, contradicts clue 7. Therefore, Fink and Olson are not on the E/W team; they are on the N/S team, and are, with Jones, from Oak, Lincoln, and Pointer Streets, while Lord and Tolman are the two remaining substitutes for the E/W team, and are from street named for dogs. Wing is not from Beagle Street (clue 4). Since Usher, whose initial follows that of Tolman, is from Setter Street, Tolman is not from Beagle (clue 4); Lord is from Beagle Street. Tolman is not from Terrier (clue 2); Wing is, while Tolman is from Spaniel. By clue 4, then, King is from Aspen Street, Mann from Carnation, and Nance from Dogwood. Fink and Cole are from streets with the same initial (clue 8). Fink is not, then, from Oak or Lincoln; he is from Pointer. By clue 3, Cole is not from Phlox; he is from Pine. Olson is not from Oak (clue 2); he is from Lincoln, while Jones is from Oak. The only two remaining unplaced streets that share an initial are Aster and Adams; Drake and Edwards live on those two streets, in some order (clue 8). Edwards' street is not named for a President (clue 7); he lives on Aster, while Drake lives on Adams. By clue 1, the man from Birch Street is on the E/W team. By clue 6, the man from Phlox is also on the E/W team so, by clue 1, the man from Rose is on the N/S team. The remaining streets are named for Presidents; since Baker's street is not named for a President (clue 7), he lives on Rose Street. Queen's and Sage's streets start with the same letter (clue 8), and Queen lives on Cherry, Roosevelt, or Tulip. Queen, then, lives on Tulip and Sage on Truman. Ring does not live on Roosevelt (clue 2); he lives on Cherry, and Plank lives on Roosevelt. Horn's street is not named for a tree (clue 7), nor is it either Phlox or Washington (clue 10); his street is Jefferson. By clue 1, Gill lives on Washington. Inman does not live on Birch (clue 3); he lives on Phlox while, by elimination, Allen lives on Birch. In summary:

East-West Team	North-South Team
Plank, Roosevelt	Edwards, Aster
Sage, Truman	Drake, Adams
Allen, Birch	Baker, Rose
Mann, Carnation	Gill, Washington
Horn, Jefferson	Usher, Setter
Ring, Cherry	Fink, Pointer
Lord, Beagle	Olson, Lincoln
Cole, Pine	King, Aspen
Queen, Tulip	Nance, Dogwood
Wing, Terrier	Jones, Oak
Tolman, Spaniel	Vance, Daisy
Inman, Phlox	

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WORD ARITHMETIC

0 1 2 3 4 5 6 7 8 9

1. T O P/S U R F A C E
2. M A D E/P O I N T S
3. F R I S K Y/C O L T
4. A R G Y L E/S O C K
5. R A I N/C L O U D S
6. M I G H T Y/O A K S
7. F I N A L/W O R D S
8. I/M A D E/Y O U R S
9. T A N G O/M U S I C
10. O U T L A N D E R S
11. S I L V E R/B A N D
12. U N S O C I A B L E
13. O V E R P A Y I N G
14. B I G/H O M E/R U N
15. K I N D E R/B O Y S
16. M A R B L E/S I N K
17. M Y/D A U G H T E R
18. R U S T Y/C A N O E
19. C O Z Y/W A R M T H
20. L I G H T/B R O W N
21. G O D F A T H E R S
22. D R A F T Y/H O M E
23. W A S/V O T E D/I N
24. O R A N G E/S U I T
25. A/M O T H'S/W I N G
26. Q U I Z/A N S W E R
27. M O N A R C H I E S
28. W I L D/F R E N Z Y
29. H A N D S O M E L Y
30. T E N/O F/C L U B S
31. F L I M S Y/G O W N
32. H U G E/C A R T O N
33. H I D/O U R/G E M S
34. S H I N Y/T A B L E
35. F O U R/W H A L E S
36. M O U S T A C H E D
37. N O/B R A C K E T S
38. H O T/F U R N A C E
39. G U M/F L A V O R S
40. O P A Q U E/F I L M
41. D A Y/O F/B I R T H
42. R I G H T/P L A C E
43. T R O P I C/L A N D
44. T O/S W A N/D I V E
45. D I N K Y/P U R S E

CROSS SUMS HELPS

1: 8124	6: 6241	11: 2573	16: 2517
2: 8124	7: 6823	12: 984	17: 4798
3: 6321	8: 892	13: 5136	18: 953
4: 8129	9: 859	14: 5186	19: 13689
5: 972	10: 378	15: 5997	20: 3258

FIGURE LOGIC HELPS

#5: 37-Down is 24
#6: 1-Down is 46
#7: 25-Across is 16
#8: 20-Across' first digit is 1
#9: 3-Across' first digit is 1
#11: 20-Across' first digit is 1

CROSSMATH HELP

36-Across is 7 x 84

LOGIC PROBLEM 15

The sixth villain was not Wilbur (clue 2), Selina (clue 3), Roger (clue 4), or Greta (clue 7); it was either Bette or Earl. The sixth artifact was not the crown (clue 2), mask (clue 3), bowl (clue 5), or urn (clue 7); it was either the sword or the goblet. Earl tried to steal neither the sword (clue 1) nor the goblet (clue 6); Earl was not the sixth thief, so Bette was. The artifact she tried to steal was not encrusted with pearls (clue 1), emeralds (clue 3), diamonds (clue 4), sapphires (clue 5), or rubies (clue 8); it had opals. The trap on the sixth planet was not the robots (clue 1), death rays (clue 2), lightning generators (clue 3), poison gas (clue 4), or quicksand (clue 5); it had the maze. A man was the fifth thief (clue 8), but he was not Roger (clue 4). If he were Earl, the pearl artifact would have been found the fourth week and the one on Mapola the third, while the sword would have been the sixth week and the robots would have been either the first or second week (clue 1). Earl's artifact would not have been the crown (clue 2), bowl (clue 5), goblet (clue 6), or urn (clue 7); it would have been the mask. The trap on that planet would not have been the death rays (clue 2), lightning (clue 3), or poison gas (clue 4); it would have been the quicksand. However, by clue 5, the artifact on Kryxtal would then have been found the same week as the one on Mapola. Therefore, Earl was not the man who tried to steal the fifth artifact, so Wilbur was. Bette tried to steal the artifact from Nikibi (clue 2). Earl was not the first or second villain (clue 1), nor was Greta (clue 7); Roger and Selina were, in some order, first and second, while Earl and Greta were, in some order, third and fourth. If Selina had been first, Roger would have been second. By clue 4, Smith would have faced the poison gas the third week and been on Lunurnu fifth. The first trap would not have been the death rays (clue 2), lightning (clue 3), or quicksand (clue 5); it would have been the robots. By clue 1, then, Mapola would have been the second planet, the pearl artifact would have been third, and Earl would have been fourth. By clue 2, since Wilbur was the fifth villain, the ruby artifact would have been fourth, the rays second, and the crown first. By clue 5, the sapphire artifact would have been second, Kryxtal third, the bowl fourth, and the quicksand fifth. By elimination, the fourth trap would have been the lightning. This, however, contradicts clue 3. Therefore, Selina was not the first villain; Roger was, and Selina was second. By clue 4, the second trap was poison gas. By clue 2, the ruby artifact was fourth, the rays third, and the crown second. Since Greta was either third or fourth, by clue 7, the urn was first. The robots were either first or fourth (clue 1). If they were fourth, the sword would have been sixth (clue 1). By clue 5, the quicksand would not have been first; it would have been fifth and the lightning would have been first. Also by clue 5, the bowl would have been fourth, Kryxtal third, and the sapphire artifact second. This, however, would leave no place for the five artifacts mentioned in clue 1. Therefore, the robots were not fourth; they were first. Earl, then, was not third (clue 1); he was fourth, while Greta was third. By clue 1, Mapola was second and the pearl artifact third. By clue 5, the sapphire artifact was second, Kryxtal third, the bowl fourth, and the quicksand fifth. By elimination, the lightning was fourth. By clue 3, the mask was on Kryxtal. Roger did not try to steal the diamond artifact (clue 4); he tried for the emerald, while the diamond was fifth. The goblet was, then, sixth (clue 4). By elimination, the sword was fifth. The fifth planet was Phylo (clue 3). By clue 4, Lunurnu was not the first planet; it was fourth while, by elimination, Ozara was first. In summary, and in order:

Ozara, emerald urn, robots, Roger Robbit
Mapola, sapphire crown, gas, Selina Stealer
Kryxtal, pearl mask, rays, Greta Greedy
Lunurnu, ruby bowl, lightning, Earl Evil
Phylo, diamond sword, quicksand, Wilbur Wicked
Nikibi, opal goblet, maze, Bette Badd

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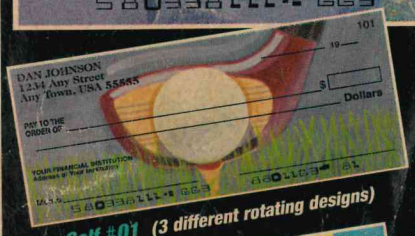
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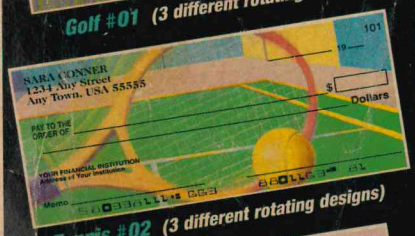
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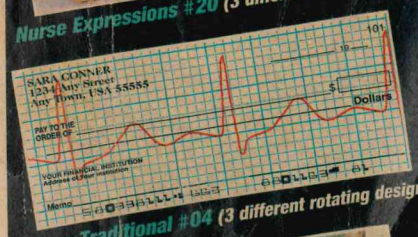
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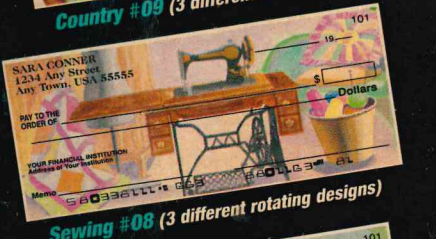
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